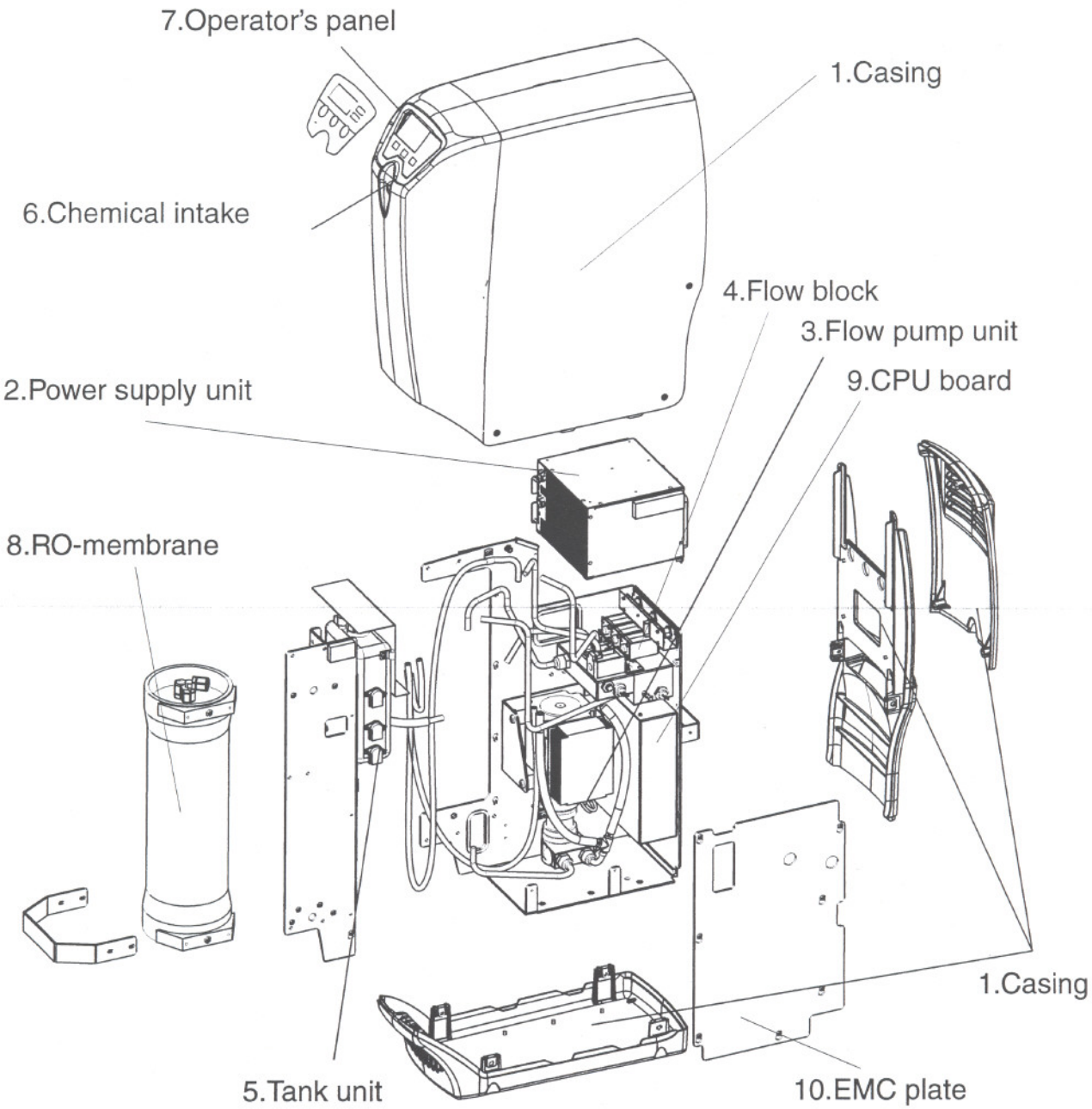
LAST UPDATED SEPT 16, 2010

5 Spare Parts

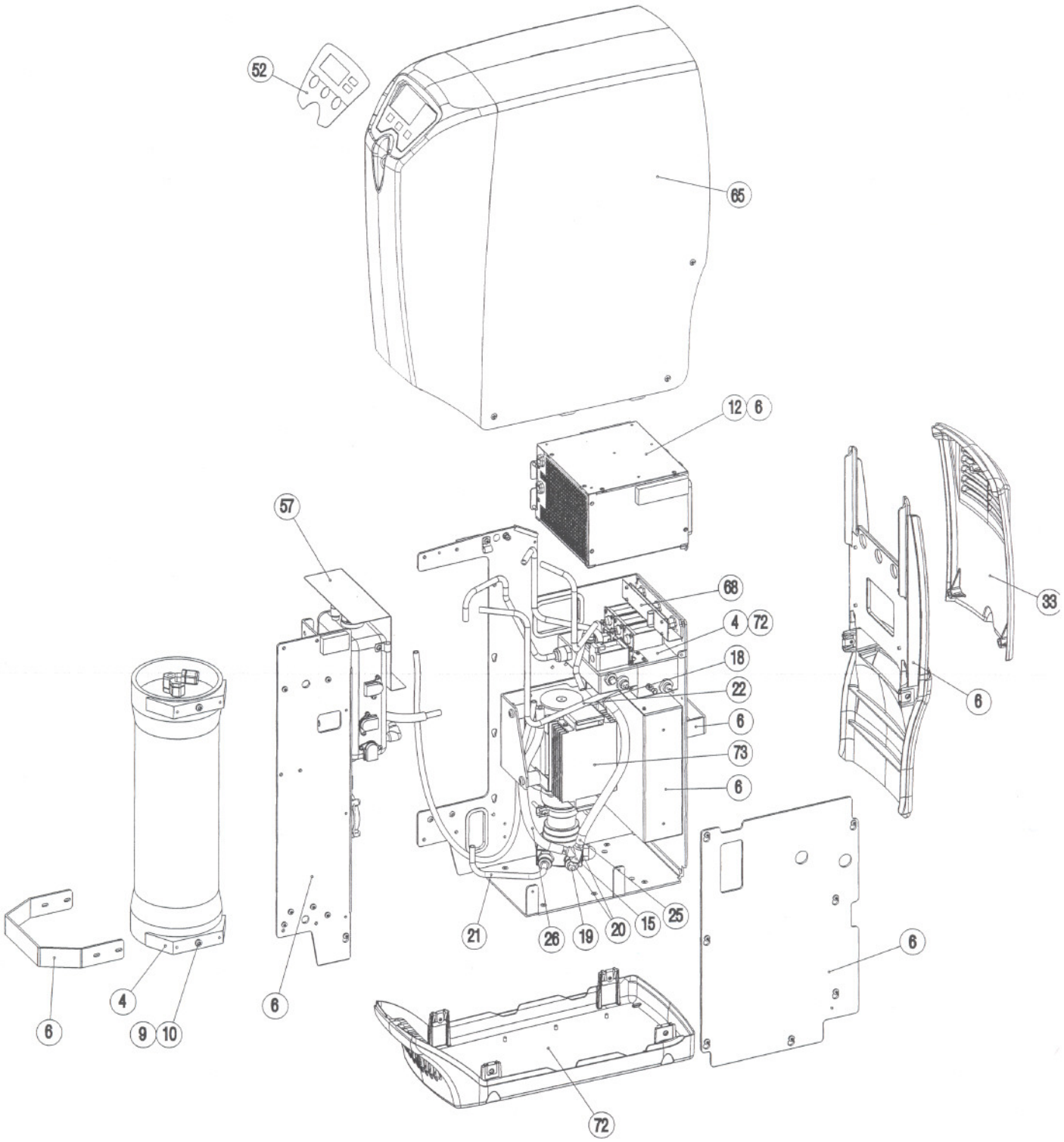
5.1 Overview

CLICK ON A MODULE DESCRIPTION TO GO TO THAT MODULE



CLICK ON EITHER THE PART NUMBER OR THE "NUMBER BUBBLE" POINTING AT THE PART TO VIEW THE PICTURE OF THAT PART. TO RETURN TO THIS PAGE, "ALT,LEFT ARROW KEY"

5.2 Casing and hoses



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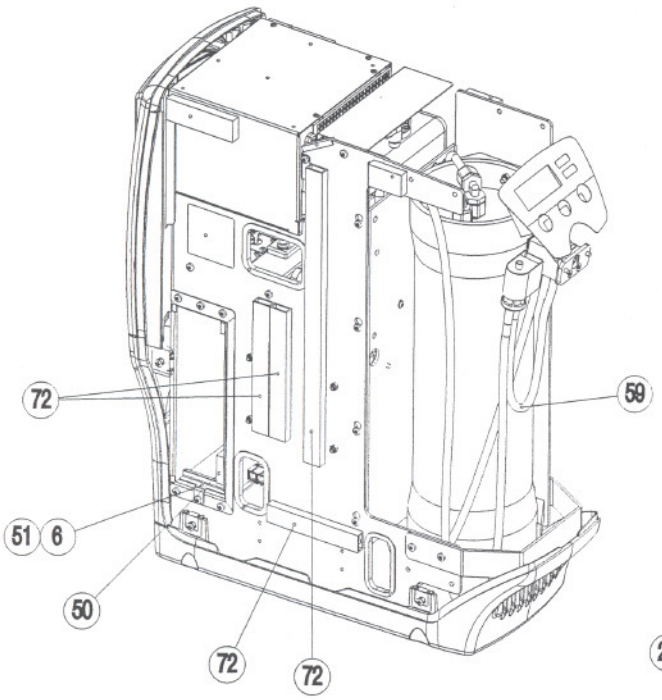
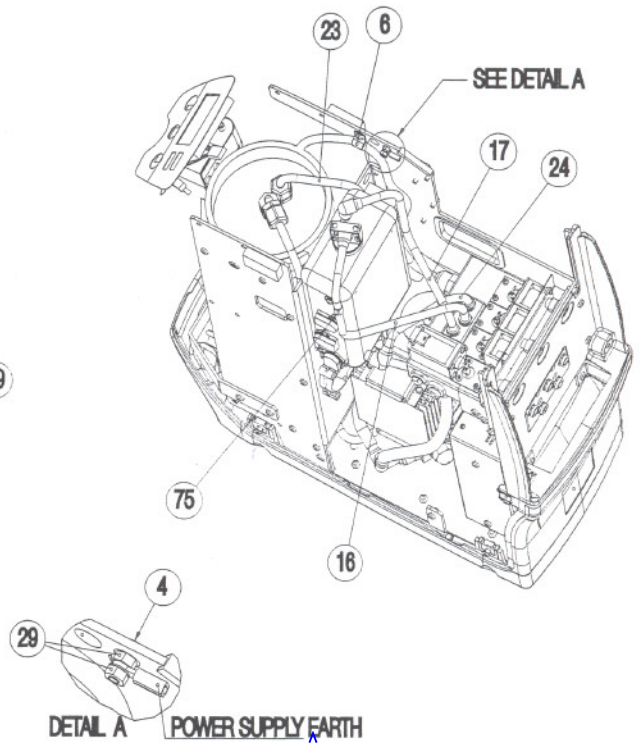
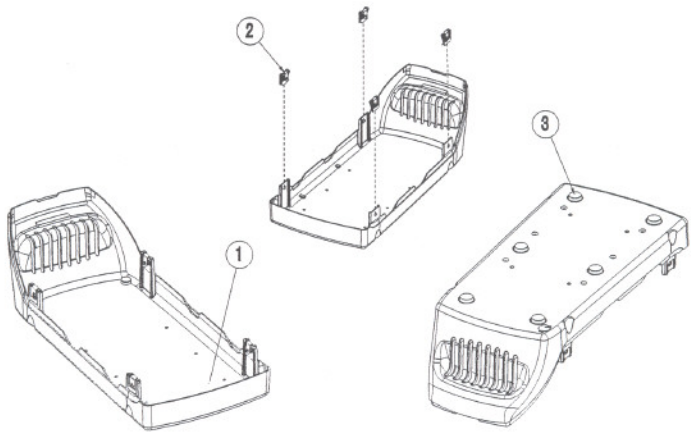




Item	Part name	Ordering number	Remark
4	Screw M4x12 TORX	WT100395004	
6	Screw Torx M4x8	WT100395002	
9	Screw Torx M5x20	W504 012 001	
10	Locking nut M5	W504 002 001	
12	Power supply unit	WTW502003006	
15	Silicone T-connector	WTK1296001	
16-24	Pex pipe kit	W514 002 001	
25,26	Silicone hose di6xt3 mm (5 metre)	W518 002 001	
29	Nut M6M4	WT100390400	
33	Detachable cover	W501 002 001	
50	CPU Board For SW 4.2 and Lower	WTW502001003	For SW 4.3 use WTW502001004
51	Clip, PCB complete	W508 001 001	
52	Overlay, WRO 300	W503 001 001	
57	Screw Plastic Torx T30x8	WT100366308	
59	Silicone hose di5x1.5 mm (10 metre)	W518 003 001	
65	Quarter turn screw	WTW900000109	
66	Cable harness WRO 300	W505 002 001	
67	Cable CPU PCB to Ext Com.	W505 003 001	
68	External communication Board, complete	W502 002 001	
72	Screw Torx M4x10	W504 011 001	
73	Locking nut M4	WT100316046	
75	Screw Plastic Torx K50x12	WT100365003	
88	Cable CPU PCB to Fan	W505 004 001	
90	TPL-plug 5/16"	WTW200148001	
	Filter Kit Air Power Supply	WTW506008001	

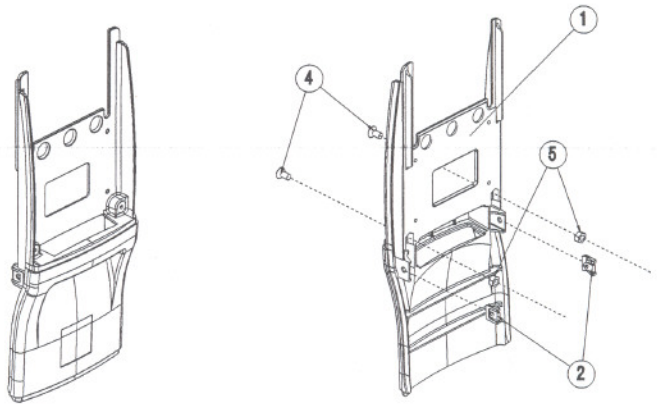
CLICK ON EITHER THE PART NUMBER OR THE "NUMBER BUBBLE" POINTING AT THE PART TO VIEW THE PICTURE OF THAT PART. TO RETURN TO THIS PAGE, "ALT,LEFT ARROW KEY"

5.2.1 Casing tray



Item	Part name	Ordering number	Remark
1	Casing tray	W501 004 001	
2	Rapier Receptacle 4 mm	W507 012 001	
3	Rubber foot	W501 008 001	

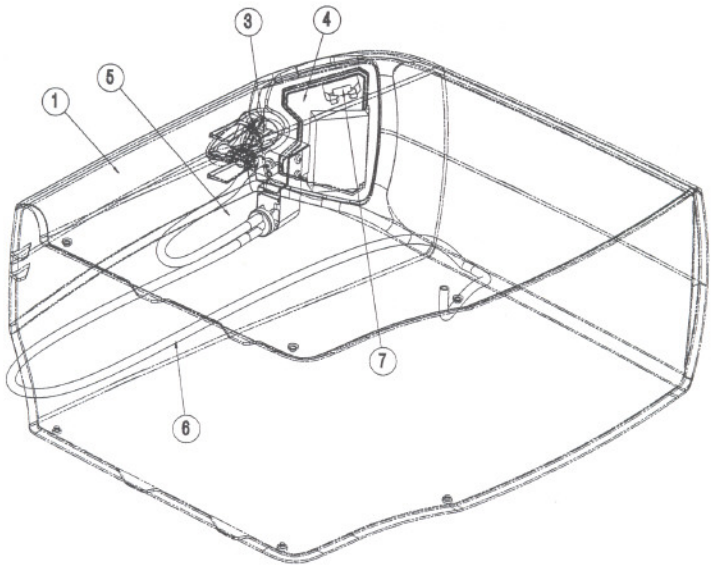
5.2.2 Casing back



Item	Part name	Ordering number	Remark
1	Casing back mould	W501 001 001	
2	Rapier Receptacle 4 mm	W507 012 001	
4	Screw M8x16	WTW900000103	
5	Nut M6M8	WT100390800	

CLICK ON EITHER THE PART NUMBER OR THE "NUMBER BUBBLE" POINTING AT THE PART TO VIEW THE PICTURE OF THAT PART. TO RETURN TO THIS PAGE, "ALT,LEFT ARROW KEY"

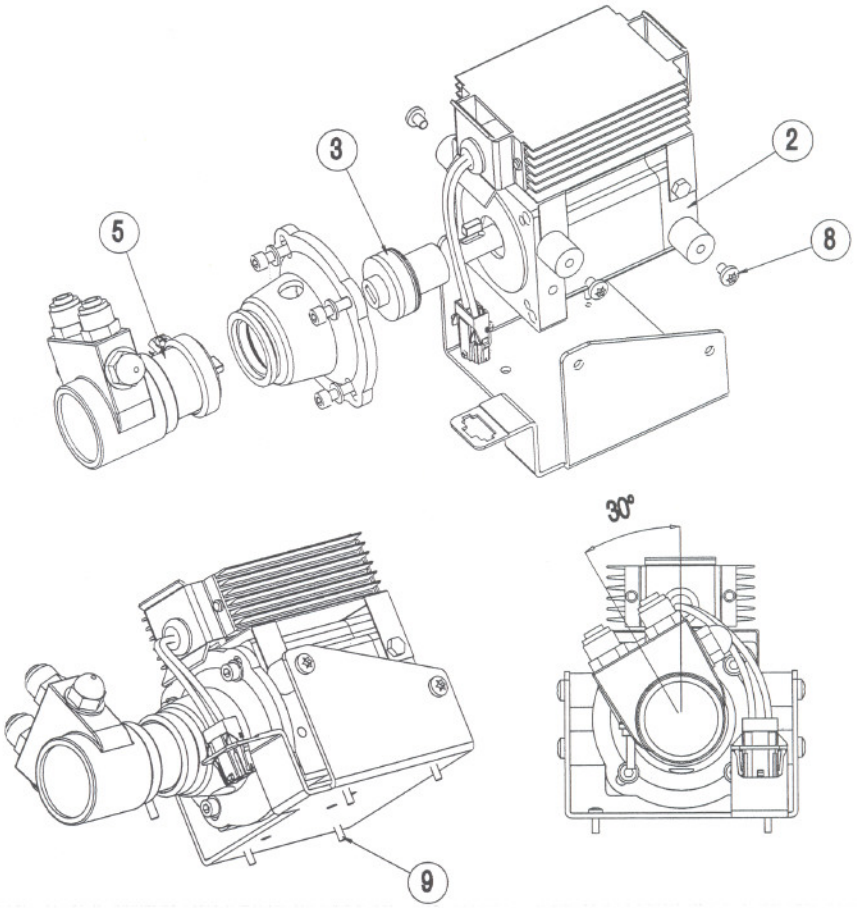
5.2.3 Casing top



Item	Part name	Ordering number	Remark
1	Casing top cover	W501 003 001	
3	Screw Torx M4x8	W504 009 001	
4	User interface	WTW506015001	For SW version 4.3 WTW506015002
5,6	Silicone hose di3xt12mm	WTW900000261	
7	Cable CPU PCB to Display PCB	W505 001 001	
	Cable CPU to Display SW 4.3 version	WTW505001002	
	Overlay	WTW503001001	
	Overlay WRO300H (Heat)	WTW503002001	

CLICK ON EITHER THE PART NUMBER OR THE "NUMBER BUBBLE" POINTING AT THE PART TO VIEW THE PICTURE OF THAT PART. TO RETURN TO THIS PAGE, "ALT,LEFT ARROW KEY"

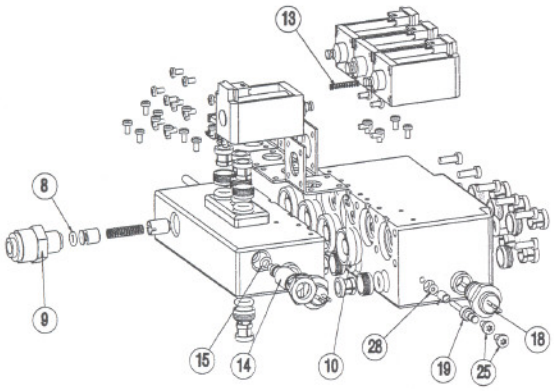
5.3 Flow pump unit

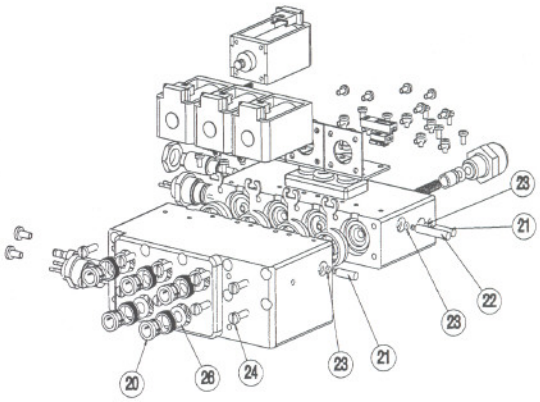


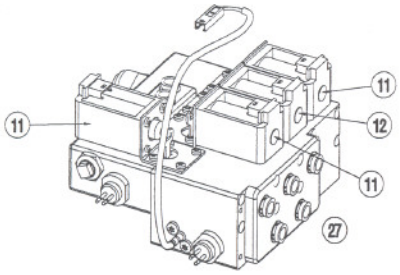
Item	Denomination	Order no	Remarks
2	Motor	W510 001 001	
3	Coupling 14 mm	W507 006 001	
5	Pump	WTW513002002	
8	Screw Torx M6x8	W504 013 001	
9	Screw M4x12	WT100395004	

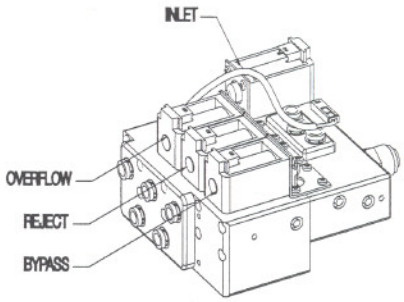
CLICK ON EITHER THE PART NUMBER OR THE "NUMBER BUBBLE" POINTING AT THE PART TO VIEW THE PICTURE OF THAT PART. TO RETURN TO THIS PAGE, "ALT,LEFT ARROW KEY"

5.4 Flow block





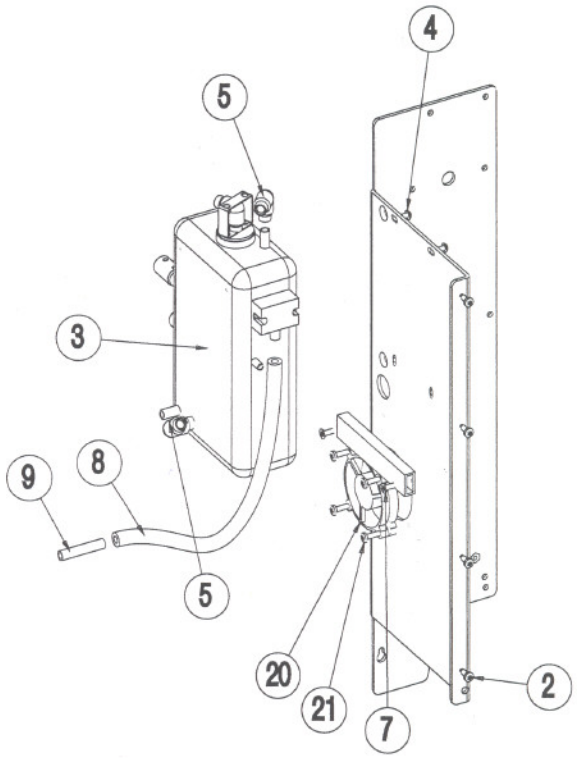




Item	Denomination	Order no	Remarks
	Flow block, complete	W515 003 001	
8	O-ring 4.3x2.4	WT100319022	
9	Male connector T1/1"	W507 009 001	
10	Valve membrane	W509 001 001	
11	Magnet 2-way valve	W508 004 001	
12	Magnet 3-way valve	W508 005 001	
13	Spring TF0.25x3x20	WTW900000072	
14	Valve screw	W508 010 001	
15	O-ring 5.1x1.6	WT100319023	
18	Conductivity cell	W508 002 001	
19	Temperature sensor	W516 004 001	
20	Collet	WTW900000119	
21	Plug 19 mm	W512 001 001	
22	Plug 30 mm	W512 002 001	
23	O-ring 7.1x1.6 Flourine rubber	W511 003 001	
24	Screw M4x12	WT100370412	
25	Screw Torx M4x8	W504 009 001	
26	O-ring 7.11x2.87	WTW900000052	
27	Screw M3x6	W504 016 001	
28	O-ring 2.57x1.78	WT100319060	

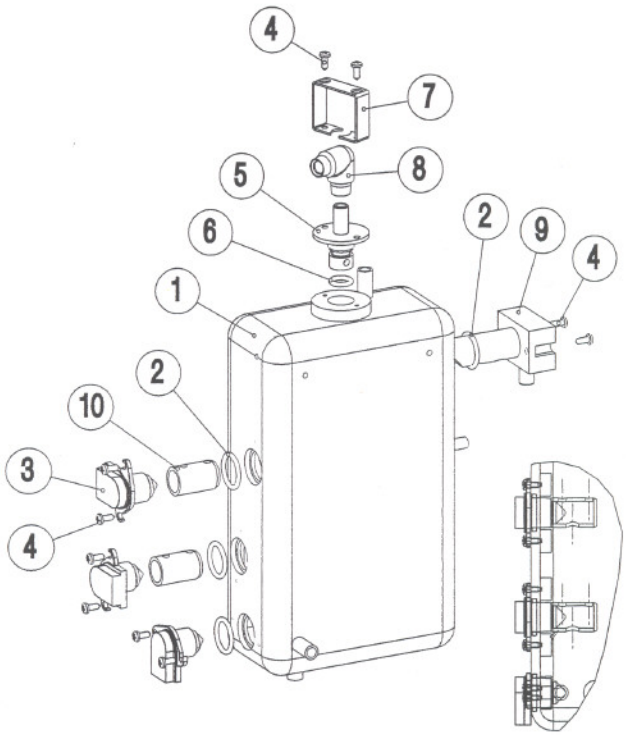
CLICK ON EITHER THE PART NUMBER OR THE "NUMBER BUBBLE" POINTING AT THE PART TO VIEW THE PICTURE OF THAT PART. TO RETURN TO THIS PAGE, "ALT,LEFT ARROW KEY"

5.5 Tank



Item	Denomination	Order no	Remarks
2	Screw Torx M4x8	WT100395002	
3	Tank, complete	WTW515004002	
4	Screw plastic Torx K50x12	W504 006 001	
5	Silicone ANGLED CONN	WTW507013001	
7	Screw Torx M4x10	WTW900000050	
9	CleanPEX pipe	W514 001 001	
20	Fan complete	WTW508003002	
21	Screw Torx M4x20	WTW900000128	

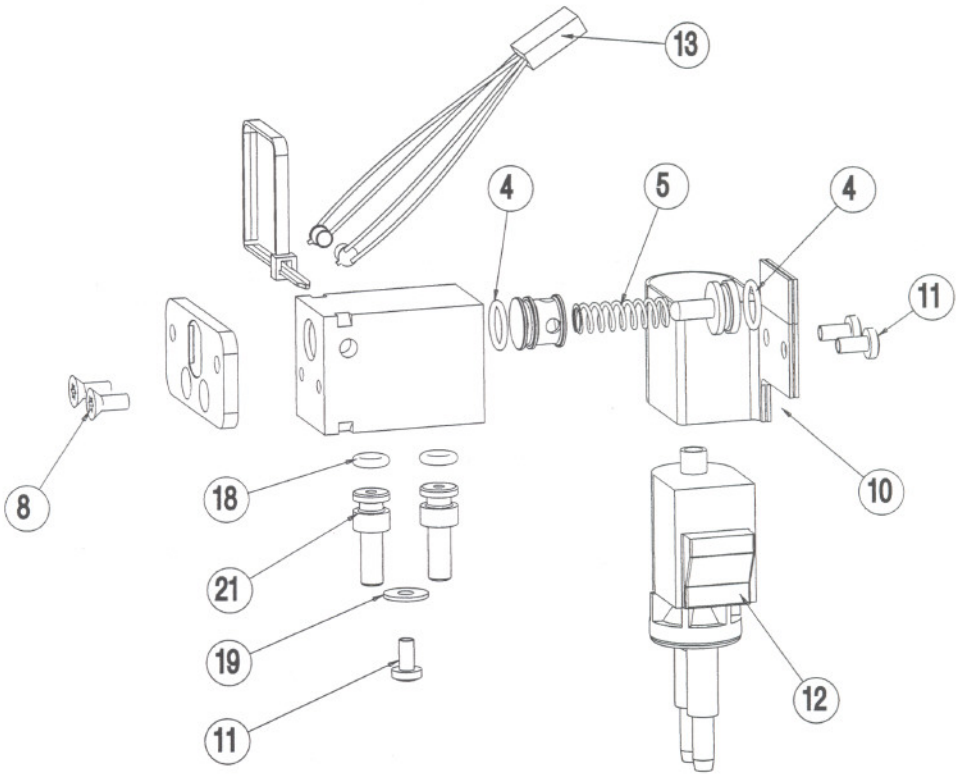
CLICK ON EITHER THE PART NUMBER OR THE "NUMBER BUBBLE" POINTING AT THE PART TO VIEW THE PICTURE OF THAT PART. TO RETURN TO THIS PAGE, "ALT,LEFT ARROW KEY"



Item	Denomination	Order no	Remarks
1	Tank	WTW519001002	
2	O-ring 15.3x2.4	WT100319029	
3	Level sensor	W516 002 001	
4	Screw Plastic Torx T30x8	W504 005 001	
5	Spray nozzle	W508 007 001	
6	O-ring 8.3x2.4	WT100319032	
7	Connector safety strip	W507 004 001	
8	Silicone ANGLED CONN	WTW507013001	
9	Tank overflow AIR VENT	WTW508006002	
10	Level sensor deflector	W516 003 001	
	Float Level Switch (Mechanical)	WTW508013002	

CLICK ON EITHER THE PART NUMBER OR THE "NUMBER BUBBLE" POINTING AT THE PART TO VIEW THE PICTURE OF THAT PART. TO RETURN TO THIS PAGE, "ALT,LEFT ARROW KEY"

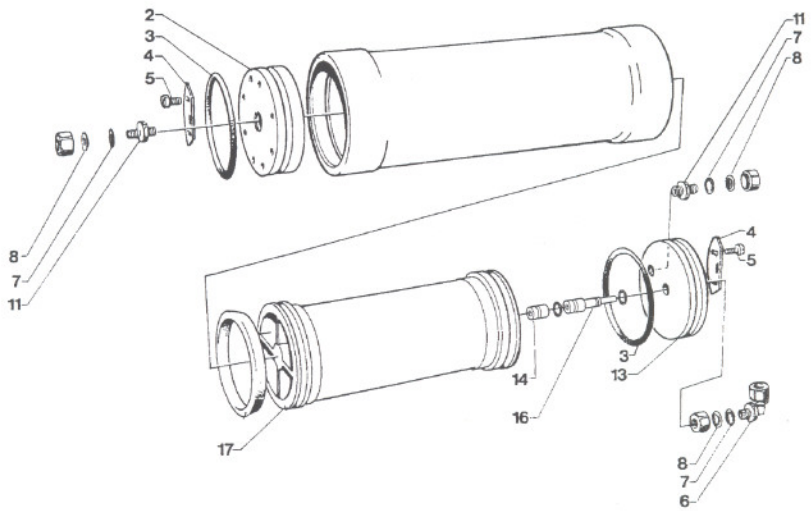
5.6 Chemical intake



Item	Denomination	Order no	Remarks
	Chemical intake, complete	WTW515002002	
4	O-ring 10.1x1.6	WT100319020	
5	Spring TF1x6x25	WTW900000072	
8	Screw Torx M4x10	WTW900000050	
11	Screw Torx M4x8	WT100395002	
12	Chemical pump 24 V AC	WTW513001002	
13	Cable Optical sensor	W516 001 001	
18	O-ring 5.3x2.4	WT100319039	
19	Washer 4.3x12x1	WTW900000070	
21	Nipple ~~angled~~ 5/16" STRAIGHT NIPPLE	WTW507010001	
	Chemical Pump Mounting Kit (not shown)	WTW506010003	

CLICK ON EITHER THE PART NUMBER OR THE "NUMBER BUBBLE" POINTING AT THE PART TO VIEW THE PICTURE OF THAT PART. TO RETURN TO THIS PAGE, "ALT,LEFT ARROW KEY"

5.7 RO-module



Item	Denomination	Order no	Remarks
	RO module, complete	WTW515008002	
2	Gable in (Old style with Black fittings)	W501 005 001	
3	O-ring 107.32x5.34	WT100318085	
4	Holding Plate	WTK09494001	
5	Screw M5x10	WT100374510	
6	Connector angle joint Black Fitting	W507 001 001	
7	O-ring 5/16"	WT100335001	
8	Locking ring 5/16"	WT100335002	
11	Connector straight Black Fitting	W507 003 001	
13	Gable out Old style with Black fittings	W501 006 001	New style WTW515009001
14	O-ring 10.5x1.6 Black	W511 001 001	
16	O-ring 7.1x1.6 Clear	WT100319004	
17	Membrane kit	WTK10640001	Incl. Membrane, 3, 14, 16 and spacer

Male Connector T12/1 P5/16" WTW100111001
Cream colored connector on the end cap of the RO Module

O-Ring 13.3 x 2.4 WT100319033
for connector WTW100111001

Male QD Coupling 1/8" WTW507021002
QD connector on end cap of RO Module for checking Membrane pressure

PEX Kit for RO Module WTW506003001
If Changing RO Module from old style with the black fittings to the new style with the cream colored connectors, this kit must also be ordered

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Item	Denomination	Order no	Remarks
1	Disinfection tube	W518 001 001	
2	Reinforced tube 8/14"	WTK03343A	Pretreatment, Reject, Overflow Lines
3	Mains cable	WT109133	
4	Hose clamp 14 - 12.5 mm	W507 007 001	
5	Nipple angled 5/16"	WTW200304001	
6	Y-connector 1.0x8 mm	WTW507022001	
	Female Connector for "Y" conn.	WTW900000797	
	O-Ring for "Y" conn.	WTW900001062	

Item	Denomination	Order no	Remarks
	Withdrawing tool	WTK12215001	
	Connector tool	W517 001 001	
	Tube cutter, PEX	W517 002 001	

Service Manual	WTHCEN12073-09/0
External Cable, Logging	WTK18401001

QD, Male, 3/8", Pretreatment Part	WT0882113
QD, Female, 3/8", Pretreatment Part	WT0883113
Gauge, 100 PSI Test Fixture	WT100TEST
1/4" "T" Fitting, Pretreatment Part	WT3805002
Pipe Nipple, 1/4" x Close, Pretreatment Part	WT3861037
1/4" Sample Port	WT5309102
Pressure Gauge, 0 - 25 Bar / 300 PSI	WT2510159
Service Manual, 3.2 Software	WTHCEN12073
Coupling to PEX Male 1/4" x 1/8"	WTW507021002
Coupling for Gauge	WTW507024001
Prefilter Kit WRO 300	WT6187002

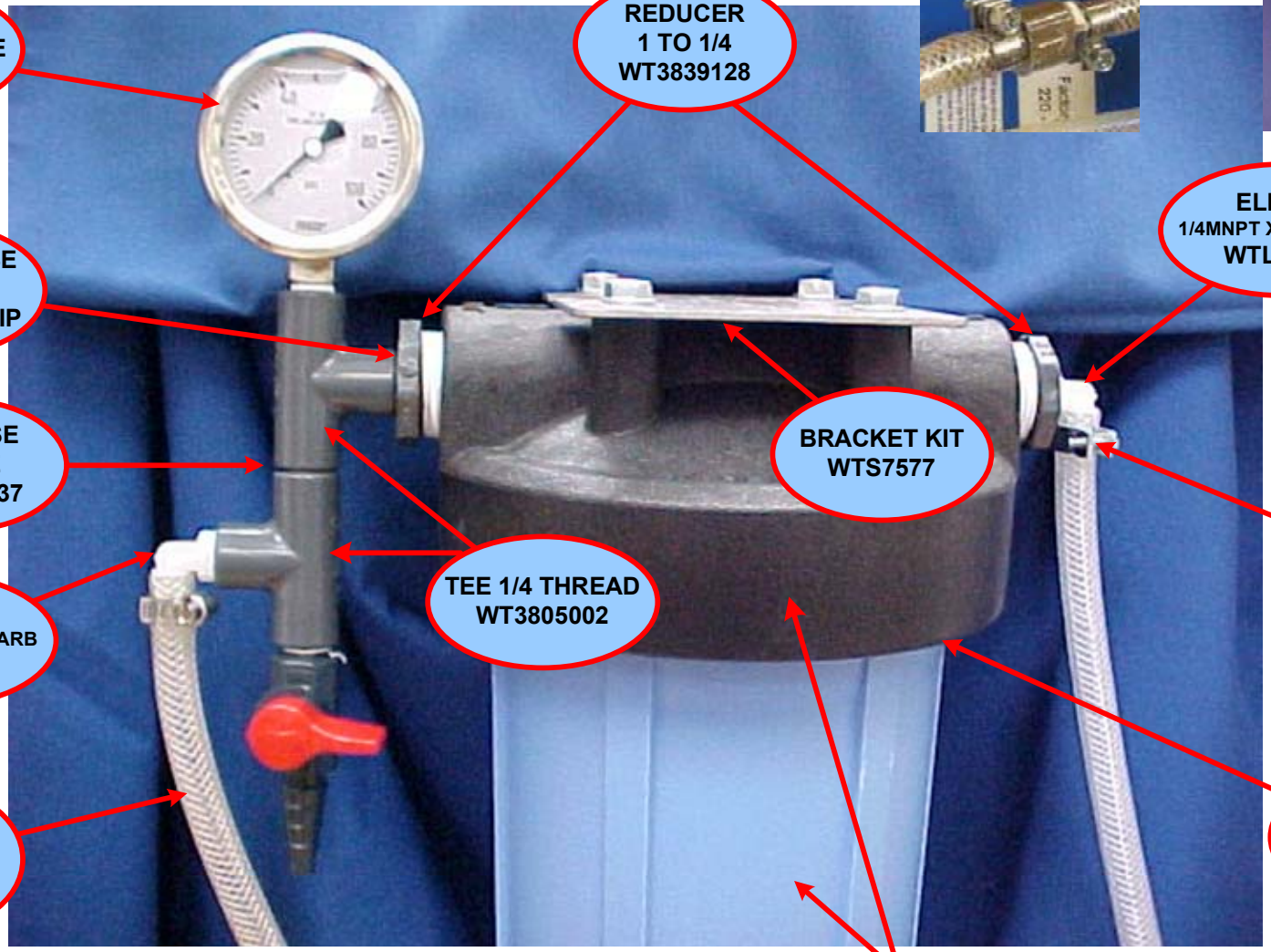
Hose Assy	WT300HOSE
CAD (Collection Assist Device)	WT300CAD
Help Cards	WTWRO300HELPCARDS
Silicon Tubing 15mm OD x 9mm ID, 1M length Used for the Product and Return lines	WT100312093

If longer than 1 meter lines are desired use WTW900000261 and 2 - WTW200304001 5/16" Angled Nipples

Castor, Swivel, W/O Brake	WT0353990
Castor, Swivel, W/Brake	WT0353990BRAKE
Pressure Regulator Kit	WT6179601
Flow Regulator, External	WTW522001001
Float Level Switch	WTW508013001
Hitch Kit to hook to Phoenix	WT6184000
Plastic Jug Box	WTCHEMBOX
Guage, 300 PSI Test Fixture	WT300PSITEST
Nipple, Angled 5/16 - 1/4	WTW200303001
Hose Clamp 11mm for WTW507027001 Angled Nipples	WTW504021001
Sound Lowering Kit	WTW506014001

KIT INCLUDES THE FOLLOWING;

Pex Pipe Kit	WTW514005001
Needle Valve Complete	WTW521001001
Flow Regulator Complete	WTW100224001
Fan Control Board	WTW502008001
Cable CPU-Fan Control Board	WTW300140001
Cable Fan Control Board-Fan	WTW300141001
Ferrule Set to Needle Valve	WTW900000725



0 to 100
PRESSURE GAUGE
WT5335100

REDUCER
1 TO 1/4
WT3839128

FLOW REGULATOR
FOR WRO300
WTW522001001
NOT PART OF KIT

PRESSURE REGULATOR
WT6179601
NOT PART OF KIT

ELBOW
1/4MNPT X 5/16 BARB
WTL45NN

1/4 SS CLOSE
NIPPLE
WT9801316NIP

BRACKET KIT
WTS7577

1/4 CLOSE
NIPPLE
WT3861037

HOSE CLAMP
WTW507007001

TEE 1/4 THREAD
WT3805002

ELBOW
1/4MNPT X 5/16 BARB
WTL45NN

REINFORCED
HOSE
WTK03343A
Not part of Kit

HOUSING
O-RING
WT6800905

QD, FEM 3/8"
WT0883113
Not part of Kit

QD MALE 3/8"
WT0882113
Not part of Kit

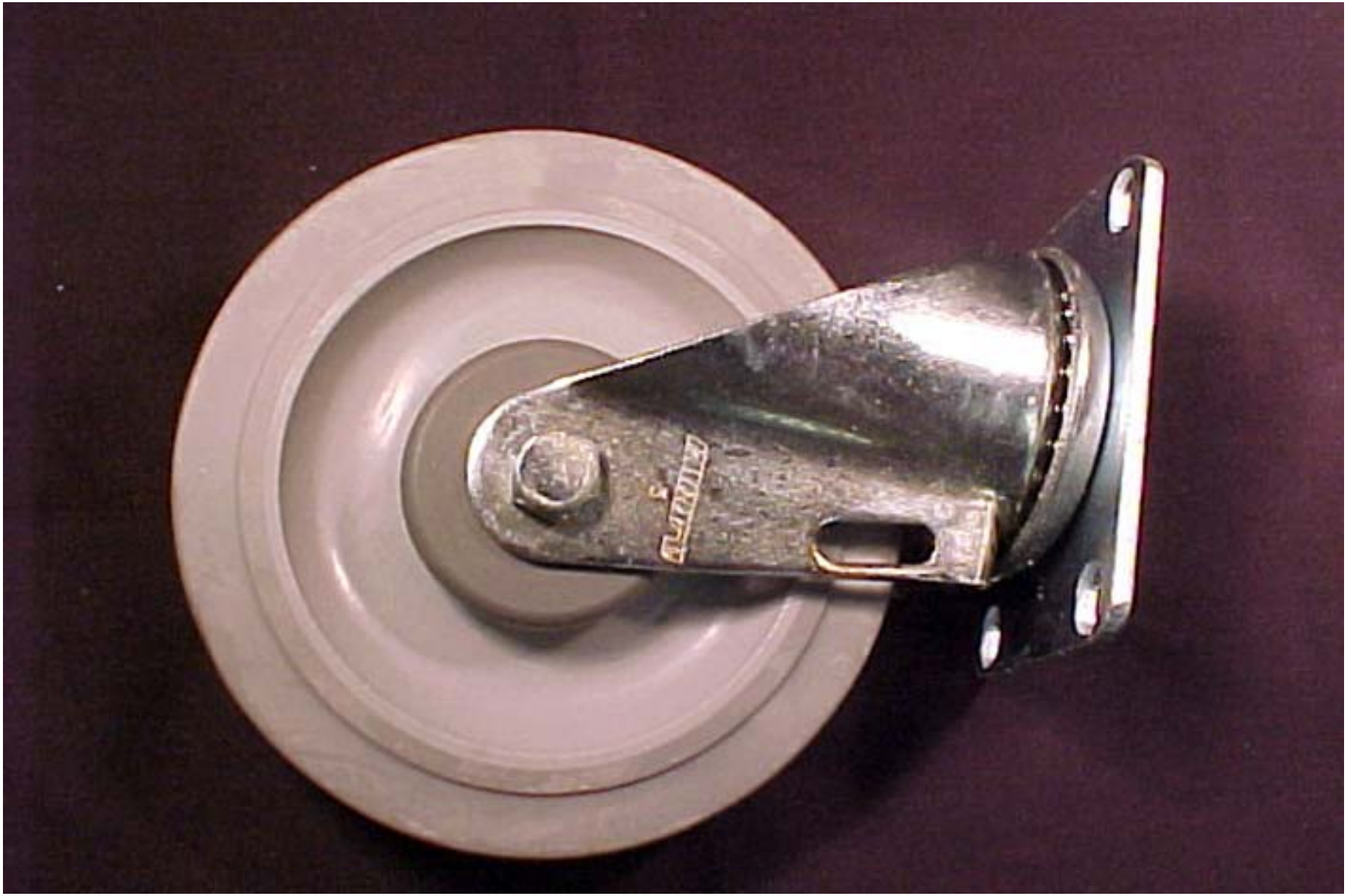
10" BB HOUSING
WT6802010
NOT SPARED

Replacement filter
10"Carbon/.5 Micron
WT01425125975

FILTER HOUSING
WRENCH
WTS7594P

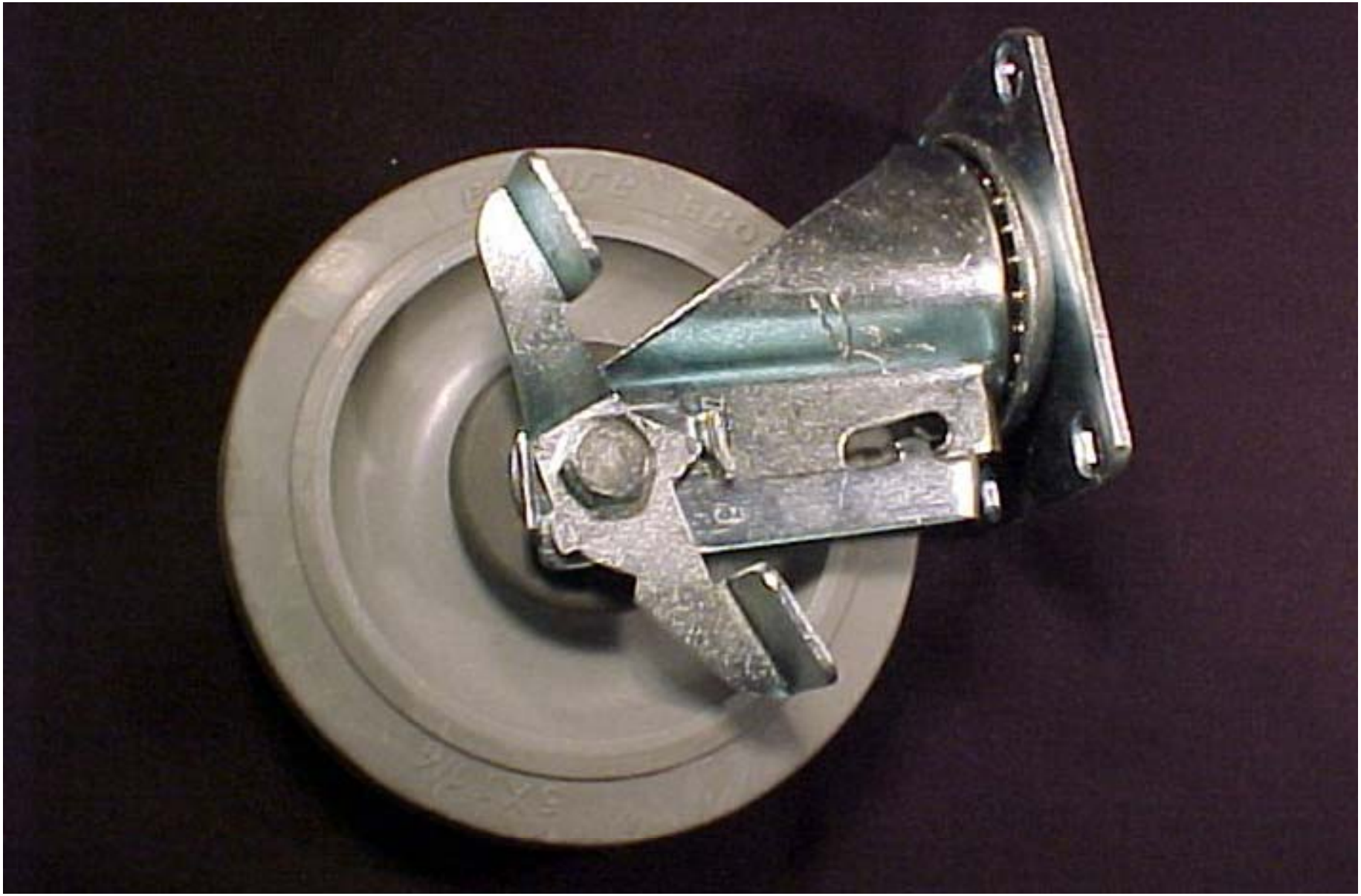
PREFILTER KIT WRO 300

WT6187002



CASTOR
SWIVEL,
W/O BRAKE

WT0353990



CASTOR
SWIVEL,
WITH BRAKE

WT0353990BRAKE

QD MALE 3/8"

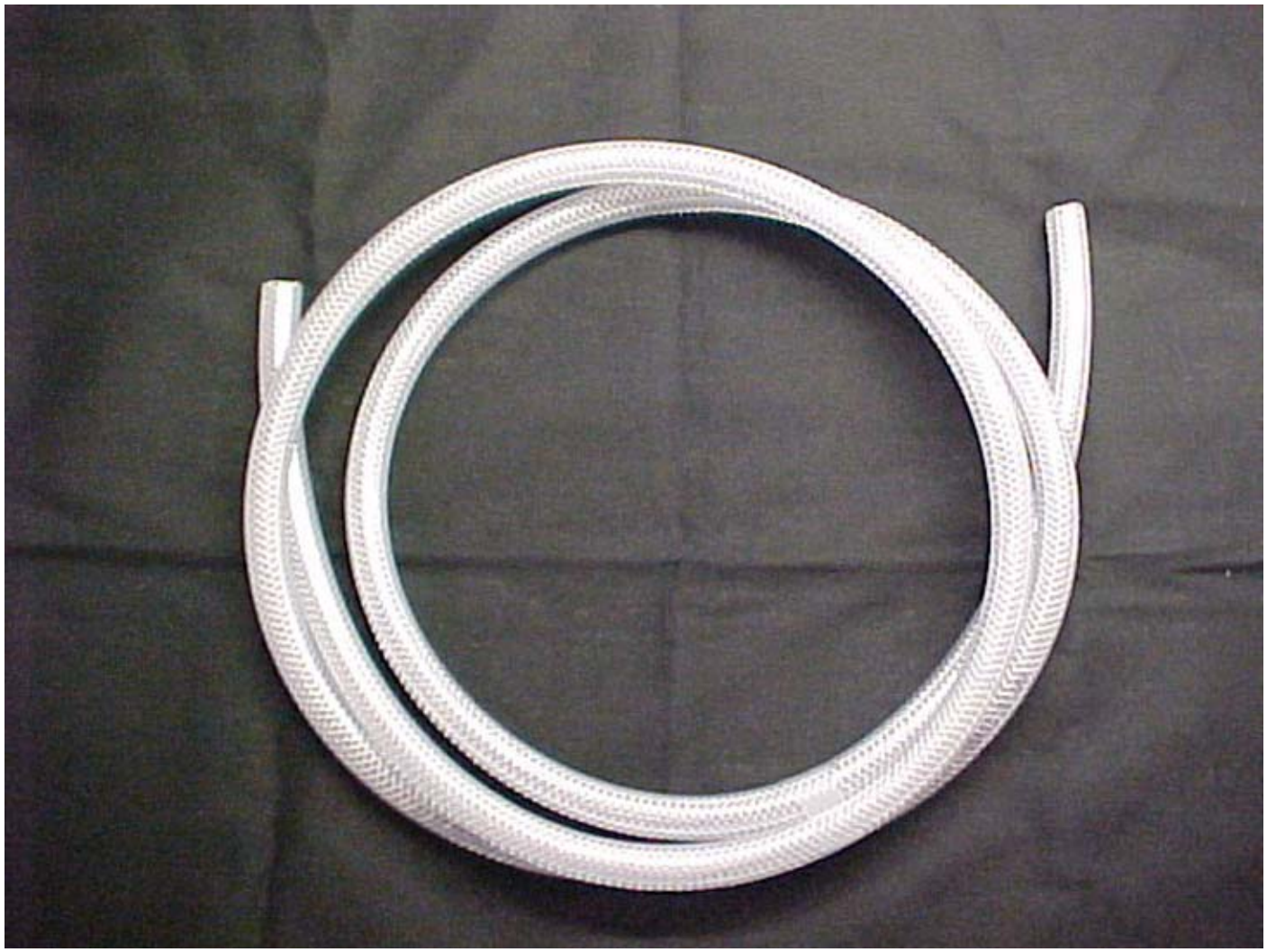
WT0882113

SPARE PART INFORMATION
WT0882113 is part of the pretreatment.

QD MALE 3/8"

WT0883113

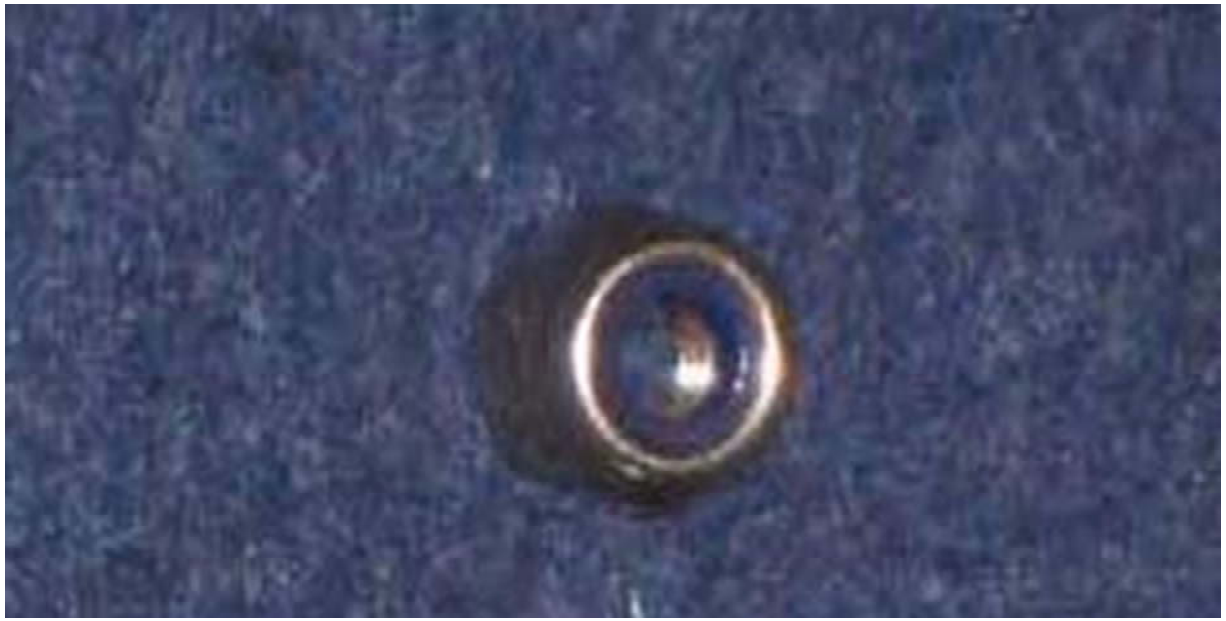
SPARE PART INFORMATION
Used on the Pretreatment Assy



SILICONE TUBING

WT100312093

SPARE PART INFORMATION
Used on the Product and Return Lines. 15mm OD x 12mm ID x 1 Meter in length, if longer lines are desired use WTW900000261 (5 meter length)



LOCKING NUT
M4
(Sold as Each)

WT100316046

SPARE PART INFORMATION
Used for mounting the Flow Pump Unit

O-RING
107.32 x 5.34

WT100318085

SPARE PART INFORMATION
107.32 mm ID X 5.34 mm thickness. Used on both RO Gables, (End Caps)

O-RING
7.1 x 1.6

WT100319004

SPARE PART INFORMATION
7.1 mm ID X 1.6 mm thickness. Used on the product water fitting on the RO Membrane

O-RING
1.42 X 1.52

WT100319010

SPARE PART INFORMATION
1.42mm ID X 1.52mm thickness. Used on the Plugs in the Flow Block.

O-RING
10.1 x 1.6

WT100319020

SPARE PART INFORMATION
Used on "Spring TF1", WTW900000072 which is part of the chemical intake assy.

O-RING
4.3 x 2.4

WT100319022

SPARE PART INFORMATION
4.3 mm ID X 2.4 mm thickness. Used on the the male fitting WTW100111001 on the Flow Block

O-RING
5.1 X 1.6

WT100319023

SPARE PART INFORMATION
5.1 mm ID x 1.6 mm thickness. Used on the Valve Screw, (Needle Valve) on the flow block

O-RING
15.3 X 2.4

WT100319029

SPARE PART INFORMATION
15.3 mm ID x 2.4 mm thickness. Used on the Level Sensors

O-RING
8.3 X 2.4

WT100319032

SPARE PART INFORMATION
8.3 mm ID x 2.4 mm thickness. Used on the Spray Nozzle on top of the water tank

O-RING
5.3 X 2.4

WT100319039

SPARE PART INFORMATION
5.3 mm ID x 2.4 mm thickness. Used on the Chemical Intake assy and the Disinfect uptake tube

O-RING
2.57 X 1.78

WT100319060

SPARE PART INFORMATION
2.57 mm ID x 1.78 mm thickness. Used on the Temperature Sensors

O RING
5/16"

SPARE PART INFORMATION
Used in the compression fittings on each end of the Membrane housing

WT100335001

LOCKING RING
5/16"

WT100335002

SPARE PART INFORMATION
Used on both ends of the old style RO Module with the black fittings, included in PNs WTW507001001 and WTW507003001

SCREW TORX
K50 x 12

WT100365003

SPARE PART INFORMATION
Used for mounting the Plastic Pex Tubing bracket to the side of the water tank, (above the level sensors)

SCREW TORX
T30 x 8

WT100366308

SPARE PART INFORMATION
Used for mounting the Plastic Shield to the water tank that protects the power supply

SCREW
M4x12
WT100370412

SPARE PART INFORMATION
Used for assembling the 2 halves of the Flow Block.

SCREW
M5 X 10

WT100374510

SPARE PART INFORMATION
Used on the Holding Plates for the Old style RO Module End Caps

SCREW
M5 X 10

WT100374510

SPARE PART INFORMATION
Used on the Holding Plates for the Old style RO Module End Caps

NUT
M6M4

WT100390400

SPARE PART INFORMATION
Used for attaching the Power Supply Earth Ground to the frame

NUT
M6M8

WT100390800

SPARE PART INFORMATION
Used for mounting the Casing Back

SCREW TORX
M4 x 8
(Sold as Each)

WT100395002

SPARE PART INFORMATION
Used for mounting various components

SCREW TORX
M4 x 12
(Sold as Each)

WT100395004

SPARE PART INFORMATION
Used for mounting various components

TUBE CUTTER

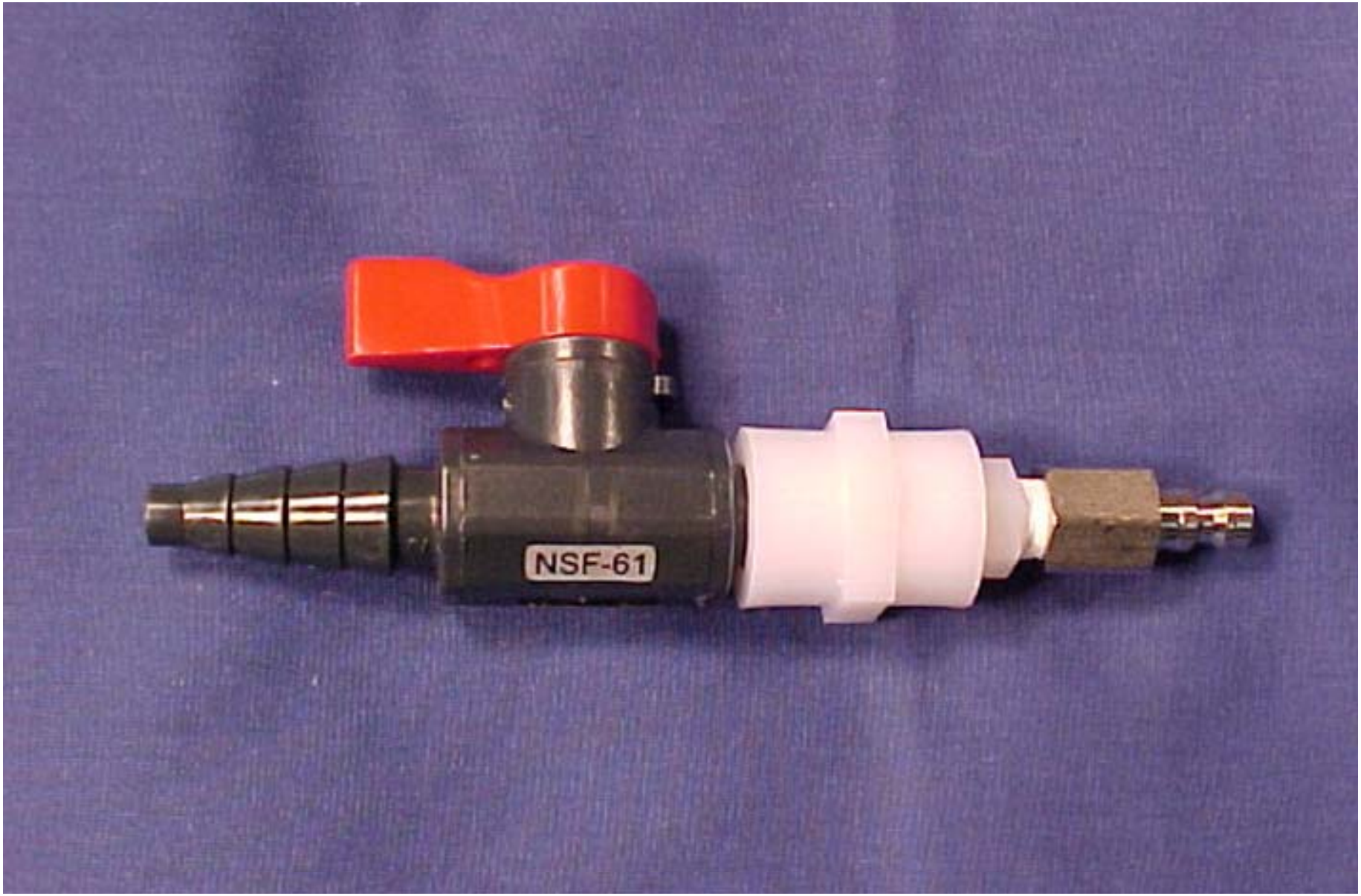
WT100830012

SPARE PART INFORMATION
For cutting Pex tubing

PRESS GAUGE
0-25 BAR

WT2510159

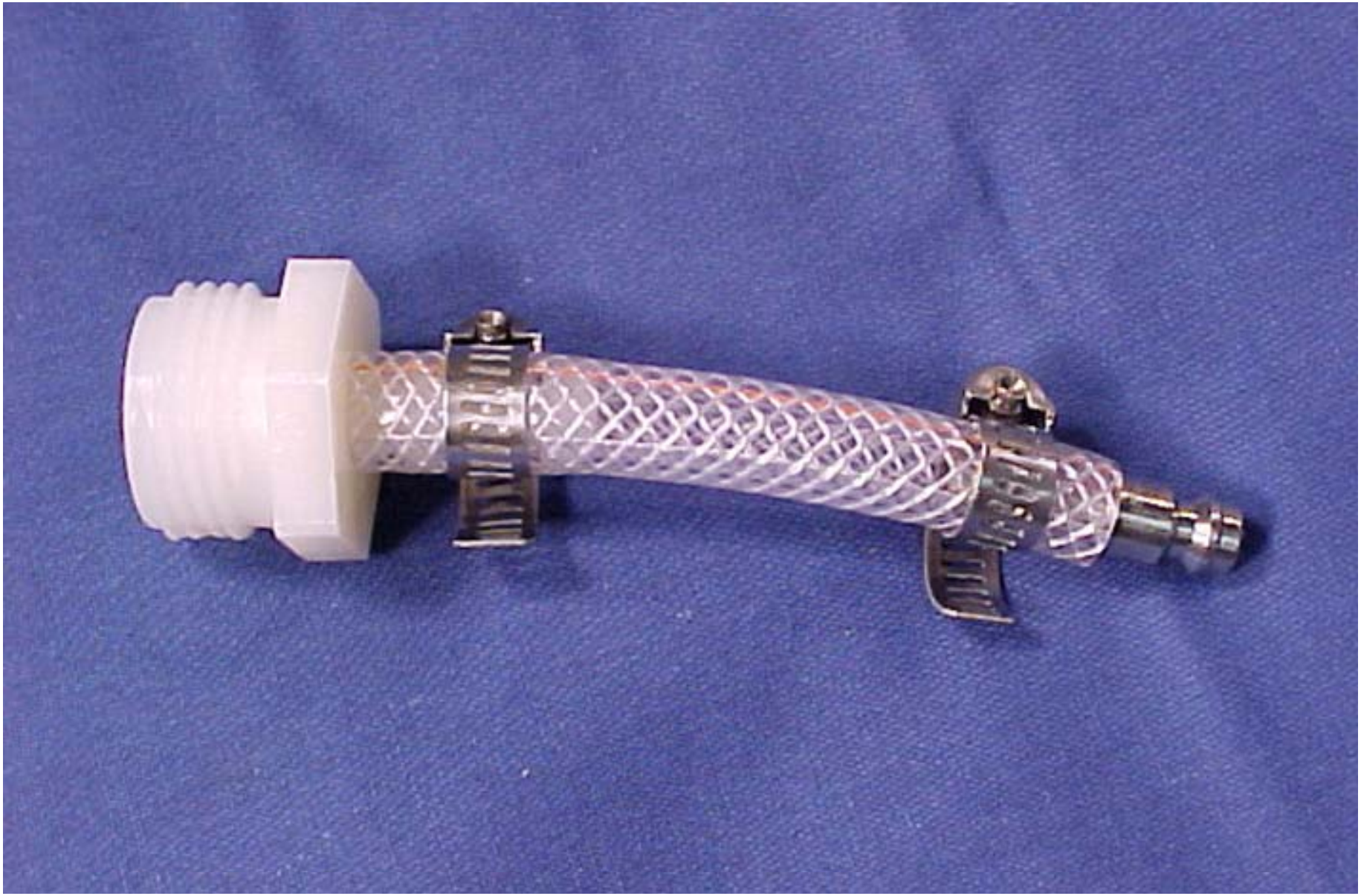
SPARE PART INFORMATION
25 Bar = 362.5PSI
Use WTW507024001 Coupling, (Female QD) to create test fixture



CAD ASSY

SPARE PART INFORMATION
Collection Assist Device

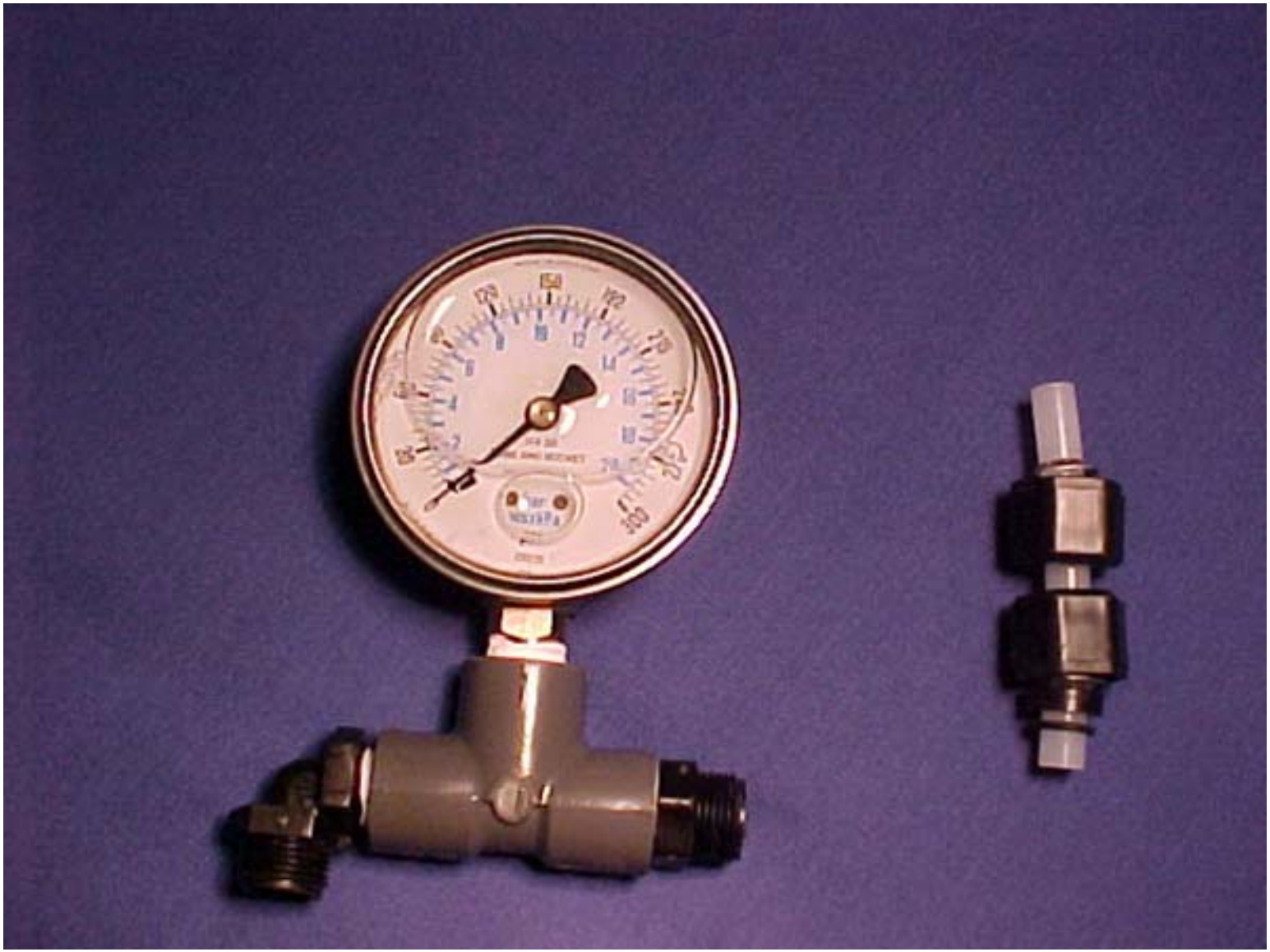
WT300CAD



HOSE ASSY

WT300HOSE

SPARE PART INFORMATION
The QD end plugs into the "Y" connector, WTW507022001



300 PSI TEST FIXTURE

WT300PSITEST

SPARE PART INFORMATION
Used for checking the Reject Pressure on the RO Module after setting the Needle Valve

1/4 “ FITTING

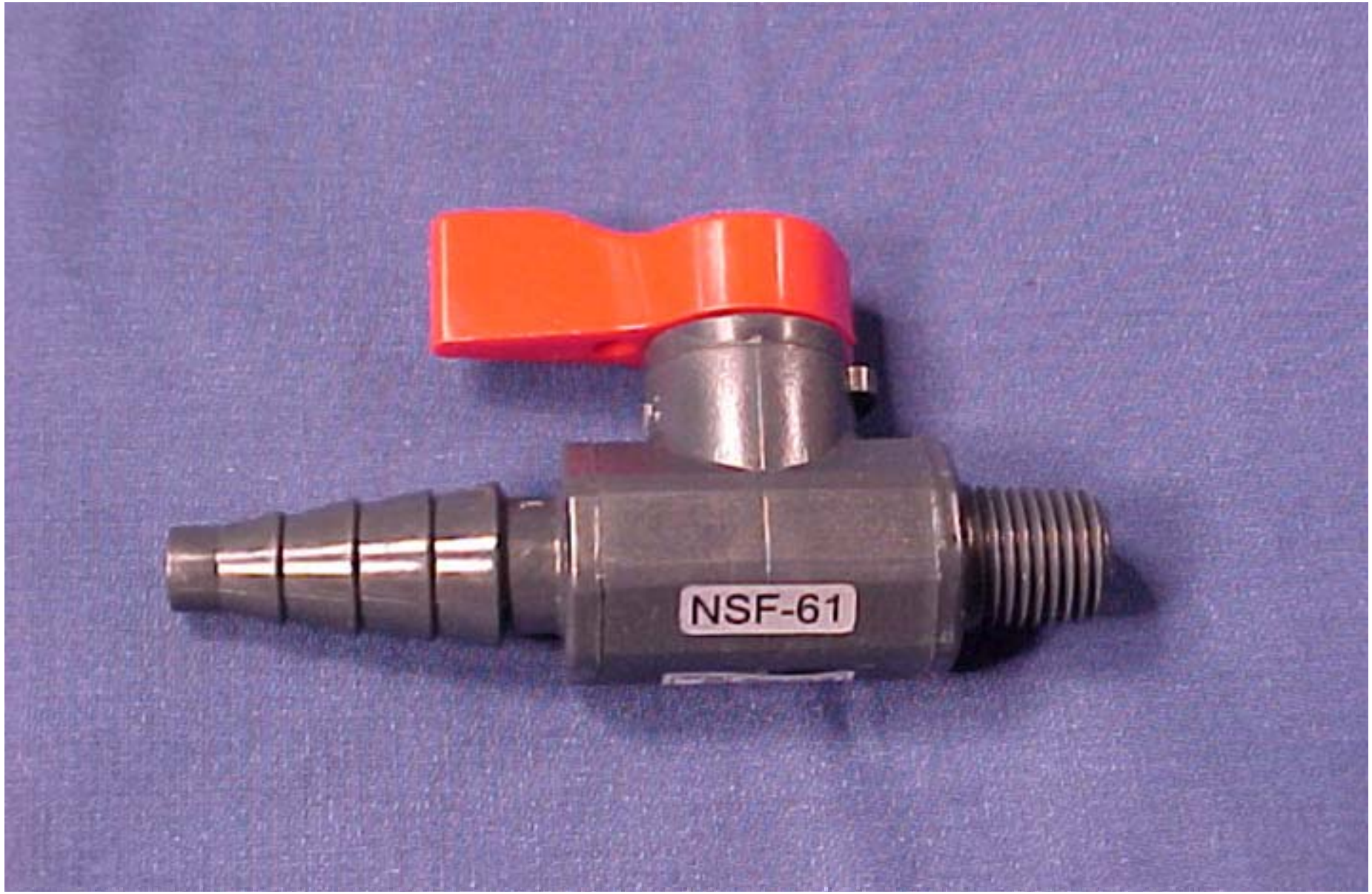
WT3805002

SPARE PART INFORMATION
Used on Pretreatment and some PSI test fixtures.

PIPE NIPPLE
1/4“ CLOSE

WT3861037

SPARE PART INFORMATION
Used on Pretreatment and some PSI test fixtures.



1/4“ SAMPLE PORT

WT5309102

SPARE PART INFORMATION
Used on Pretreatment, some PSI test fixtures and WT300CAD

Pressure Regulator Kit

WT6179601

SPARE PART INFORMATION
Needed on the WRO300 if the feed water pressure is above 44 psi, or use WTW522001001 External Flow Regulator

O-RING
23G BLUE
SLIMLINE

WT6800901

SPARE PART INFORMATION
Used on Blue Slimline Prefilter Housing

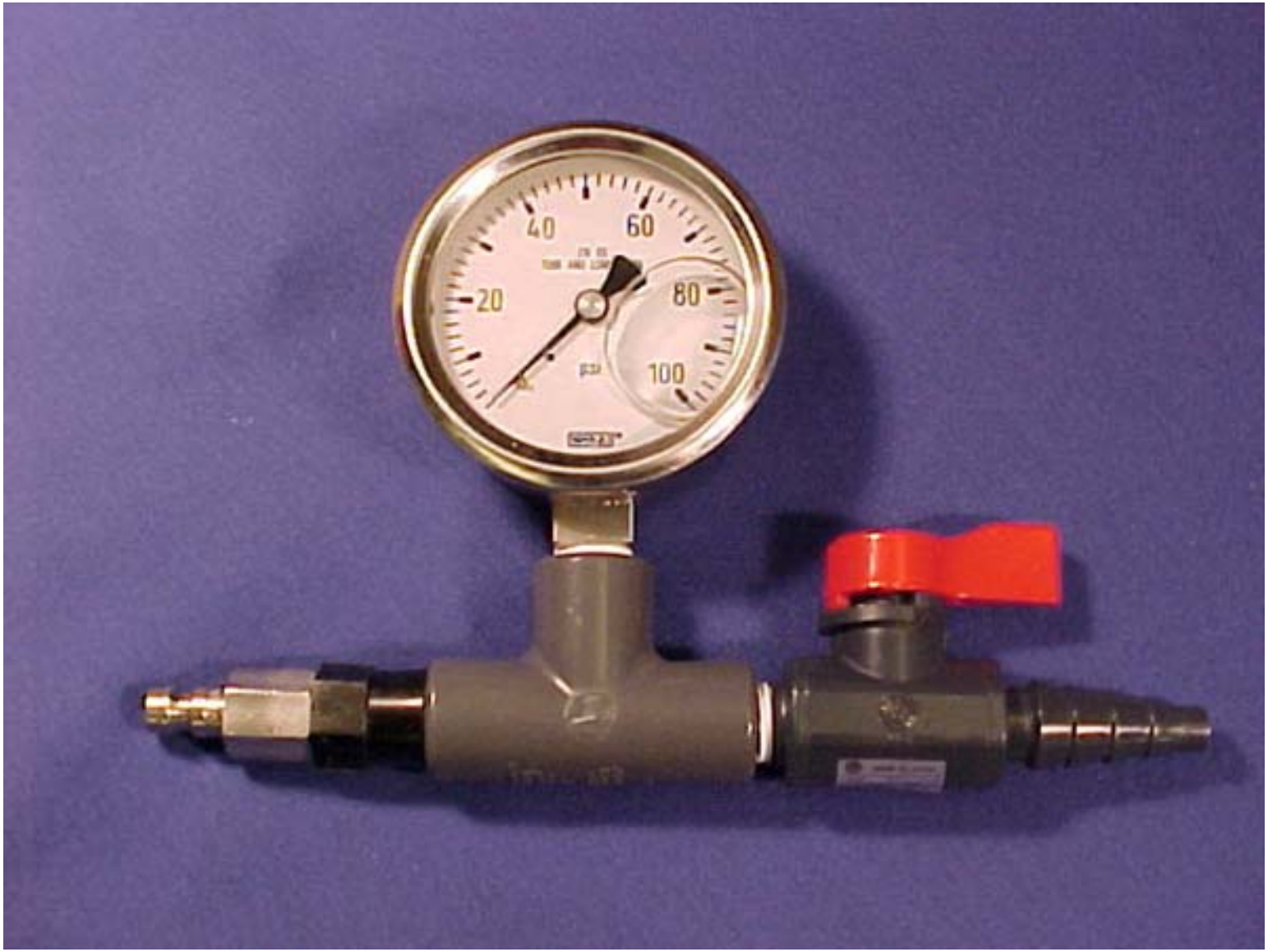
O-RING
BIG BLUE
HOUSING

WT6800905

SPARE PART INFORMATION
Used on Big Blue Filter Housing

SERVICE MANUAL

WTHCEN12073-09/0



100 PSI TEST FIXTURE

WT100TEST

SPARE PART INFORMATION
Used for setting the Needle Valve

REINFORCED TUBE 8/14

WTK03343A

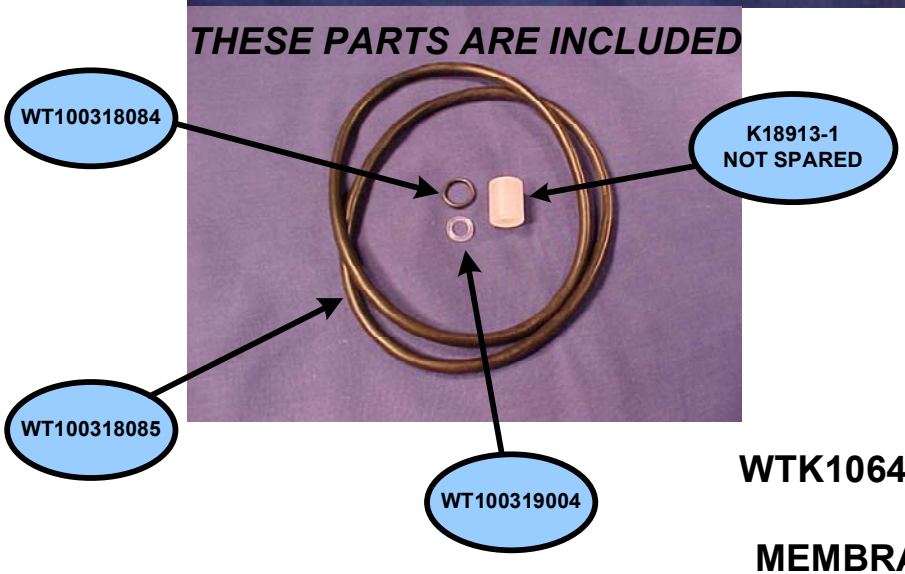
SPARE PART INFORMATION
Used on the Pretreatment,Overflow, and Reject Lines. 8mm ID x 14mm OD x 10 Meters in length, (33 ft.) For Product and Return lines use WT100312093

HOLDING PLATE

WTK09494001

SPARE PART INFORMATION
Used on the Old style RO Module end caps

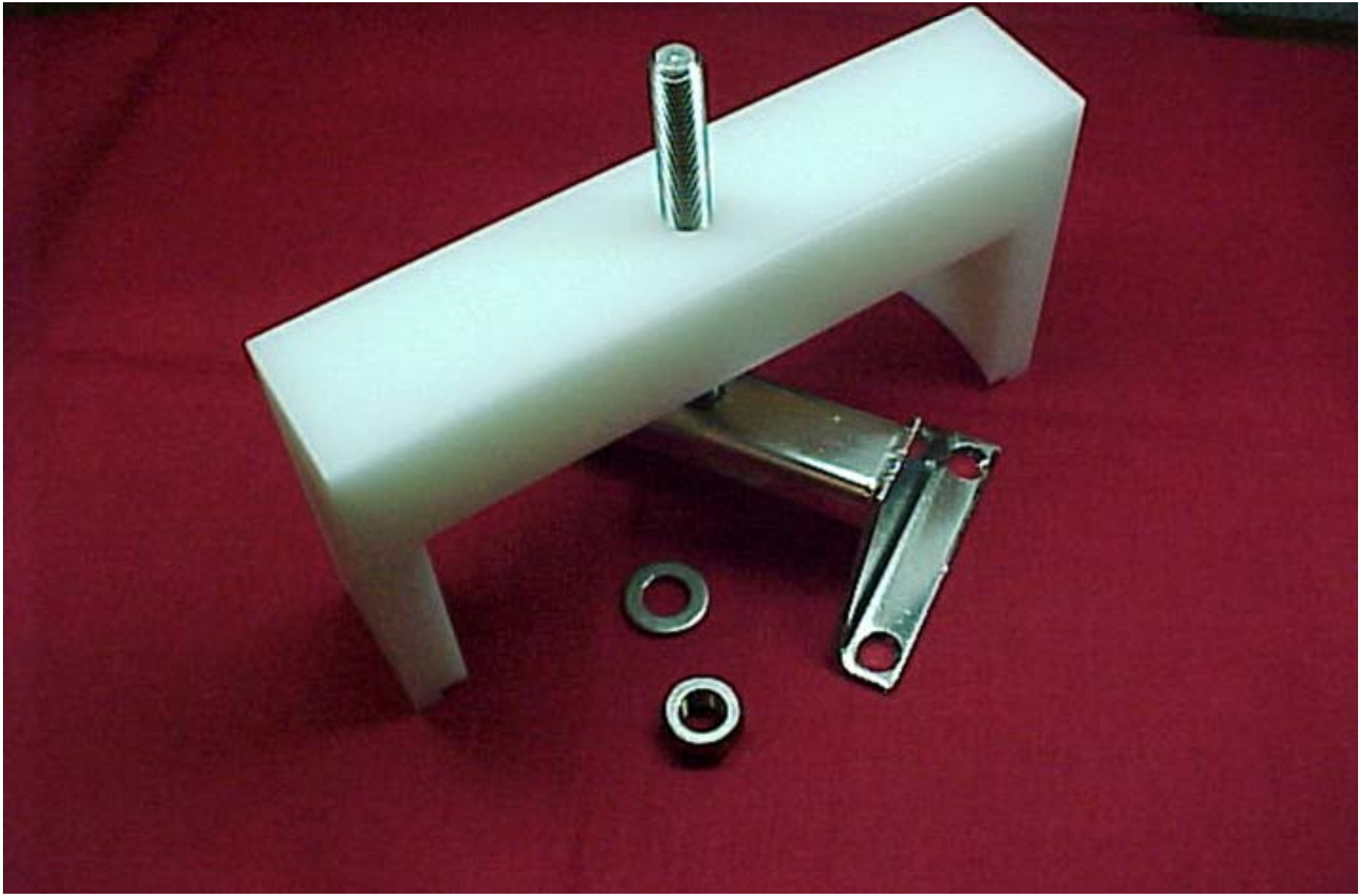
THESE PARTS ARE INCLUDED



WTK10640001

MEMBRANE KIT

SPARE PART INFORMATION
Replacement RO Membrane for WRO 300, and the WRO 95.



WITHDRAWING TOOL

SPARE PART INFORMATION
This is the same tool that is used on the WRO95

WTK12215001

SILICON
ANGLED CONN.

SPARE PART INFORMATION
Used on the Water Tank,

WTK12951001

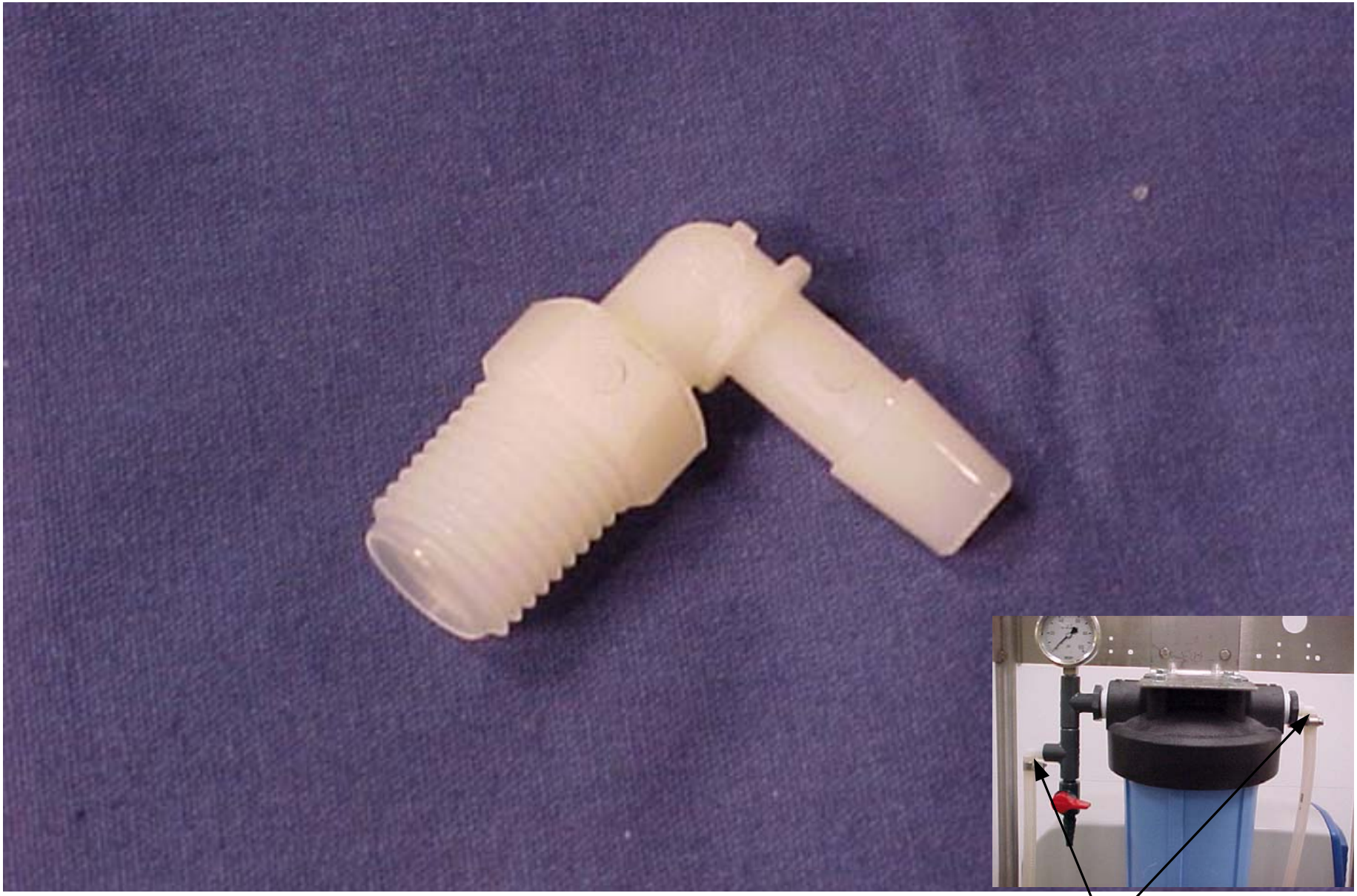
SILICON
T - CONN

WTK12961001

SPARE PART INFORMATION
Used on the input to the Flow Pump

LOGGING CABLE WTK18401001

SPARE PART INFORMATION
For machines SN5996 and lower unless the CPU has been replaced with the 4.3 software version CPU.This is the PC interface cable needed for use with GXP and GXL



ELBOW 1/4"
MNPT X 5/16"
BARBED
WTL45NN

SPARE PART INFORMATION
Used on Pretreatment, on the input and output hoses.

REFER TO SERVICE NEWSLETTER GI011

MALE CONN. T1/1 P5/16"

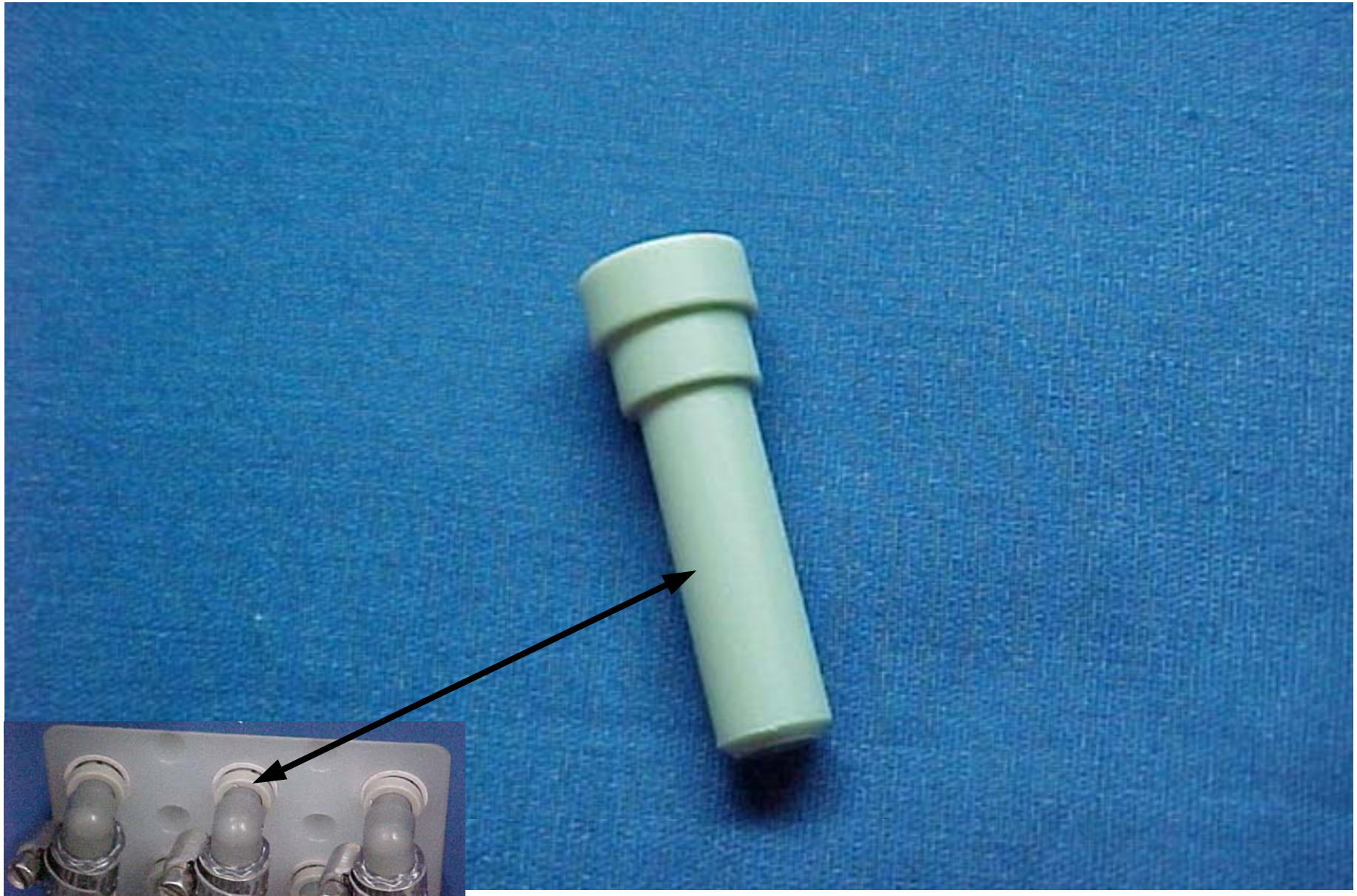
WTW100111001

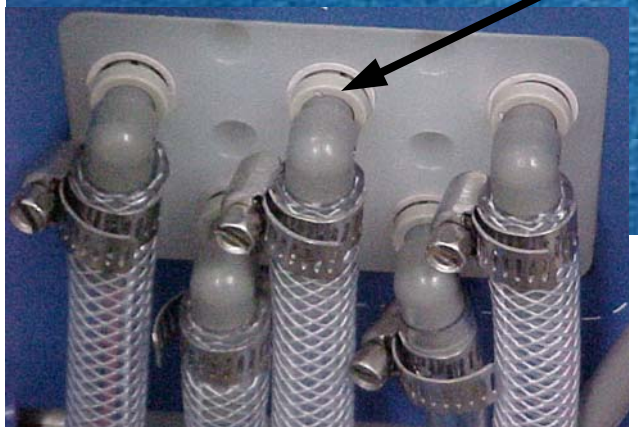
SPARE PART INFORMATION
(SOLD AS EACH) This is the new style connector on the end caps of the RO module

FLOW REGULATOR
WRO300

WTW100224001

SPARE PART INFORMATION
This is part of the Sound Lowering Kit, WTW506014001, it is not a pressure regulator. If the inlet pressure exceeds 44 psi, an external Flow (pressure) regulator should to be installed WTW522001001





TPL-PLUG
5/16"

WTW200148001

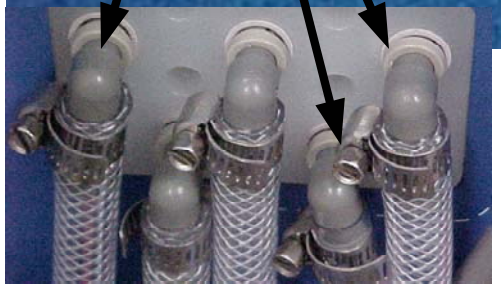
SPARE PART INFORMATION
These are the plugs that are removed at installation. They should be kept and stored, they will be used if preservation is needed

OLD NIPPLES ARE SHOWN IN PICTURE

NIPPLE ANGLED
5/16-1/4

WTW200303001

SPARE PART INFORMATION
Used on back of machine for Product and Return hose connections.



NIPPLE
ANGLED 5/16"

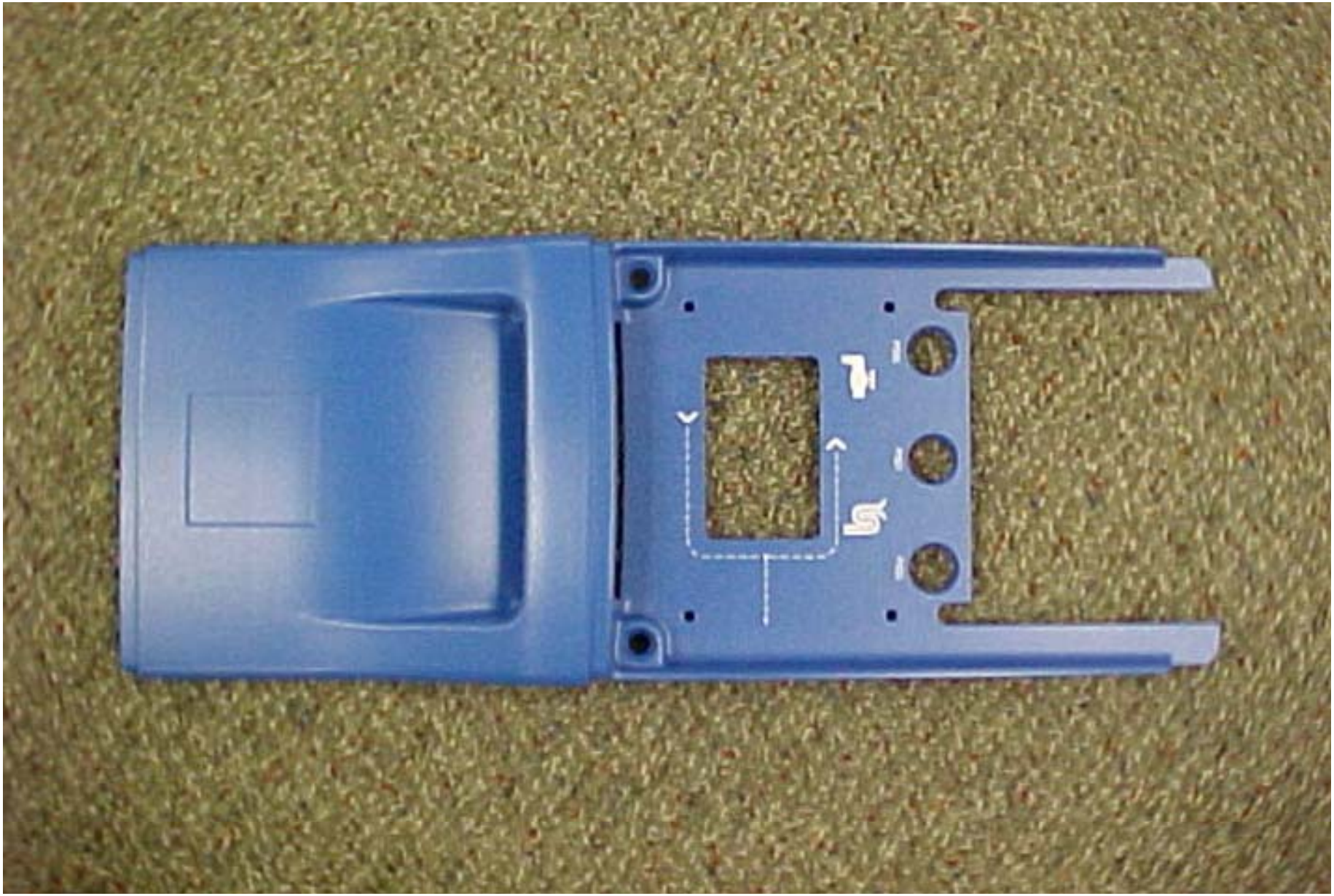
WTW200304001

SPARE PART INFORMATION
Used on back of machine for Feed, Reject, and Tank Overflow hose connections.

CABLE
WRO300
PC-USB

WTW300236001

SPARE PART INFORMATION
Needed for machines SN5997 and higher or on older machines that the CPU has been replaced the 4.3 software version CPU WTW502001004



CASING BACK
MOULDED

WTW501001001

SPARE PART INFORMATION
Use screws WTW504009001 for mounting

DETACHABLE COVER

WTW501002001

SPARE PART INFORMATION
Screws are not needed for mounting, attaches with magnets

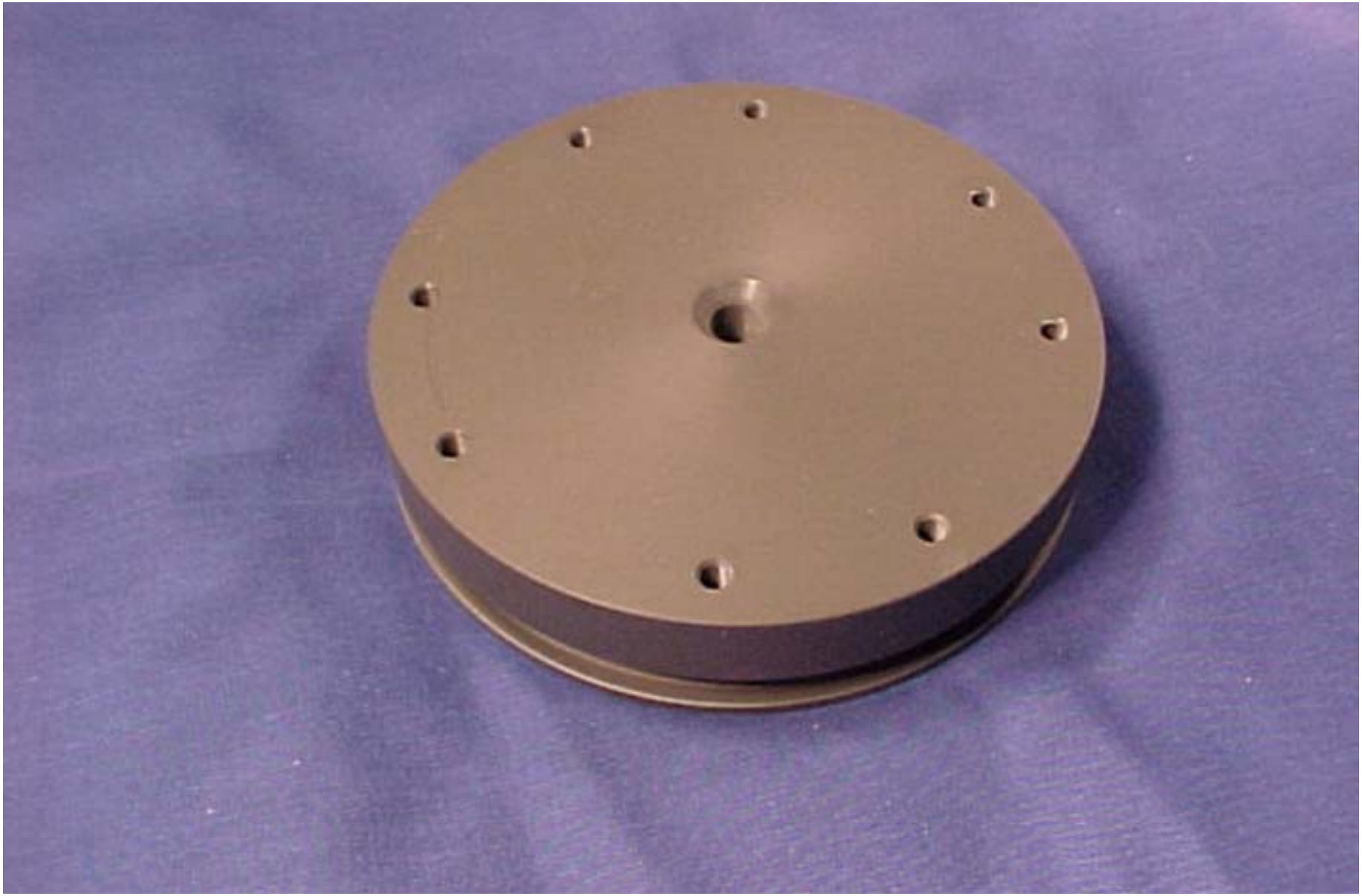
CASING TOP COVER

WTW501003001

CASING TRAY
(Bottom Cover)

WTW501004001

SPARE PART INFORMATION
Use screws WTW504011001 for mounting



GABLE IN
(END CAP)

SPARE PART INFORMATION
This part does not come with the o-ring (WTW511002001)

WTW501005001

GABLE OUT
(END CAP)

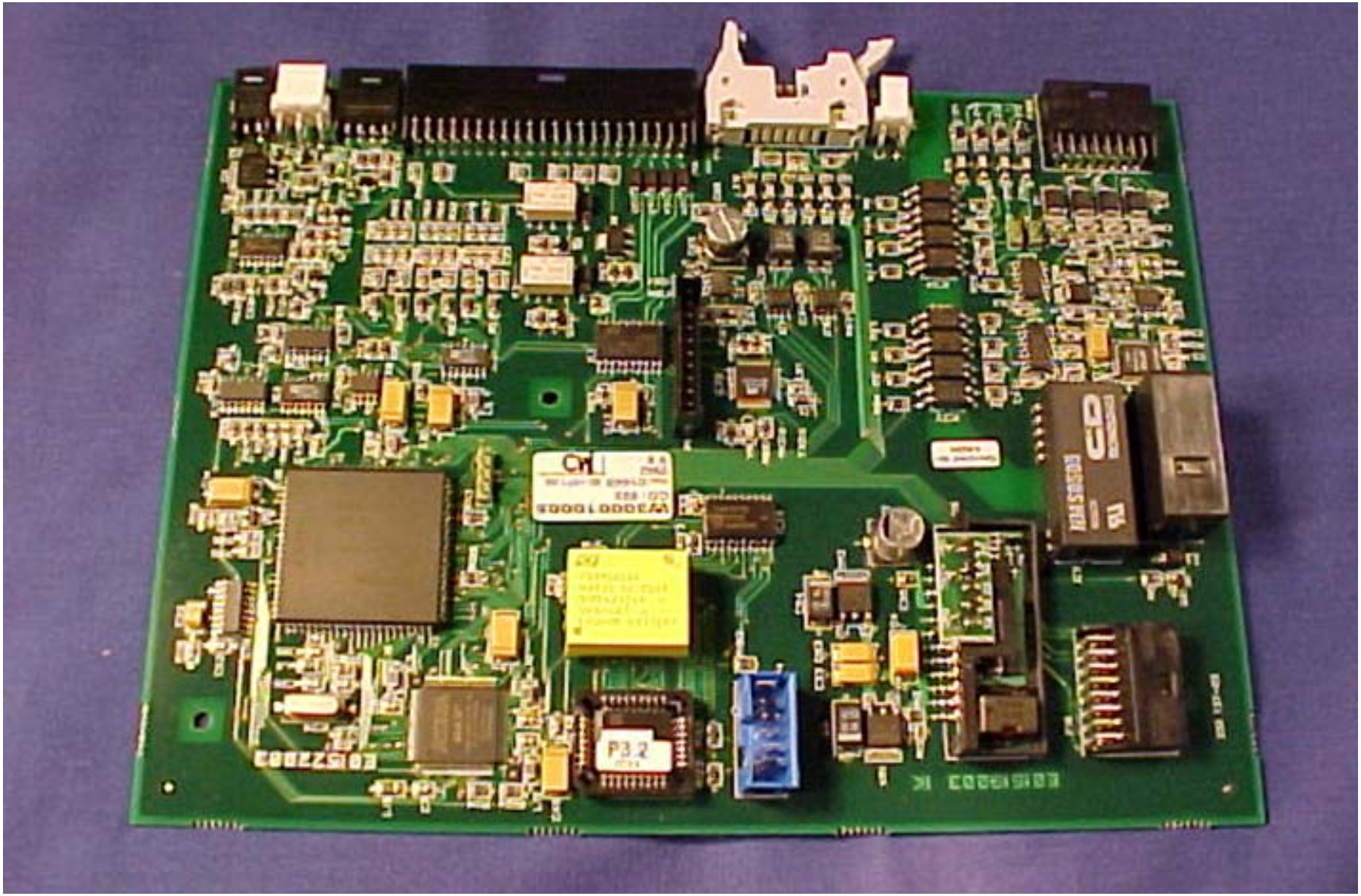
WTW501006001

SPARE PART INFORMATION
This part does not come with the o-ring (WTW511002001)

RUBBER FOOT

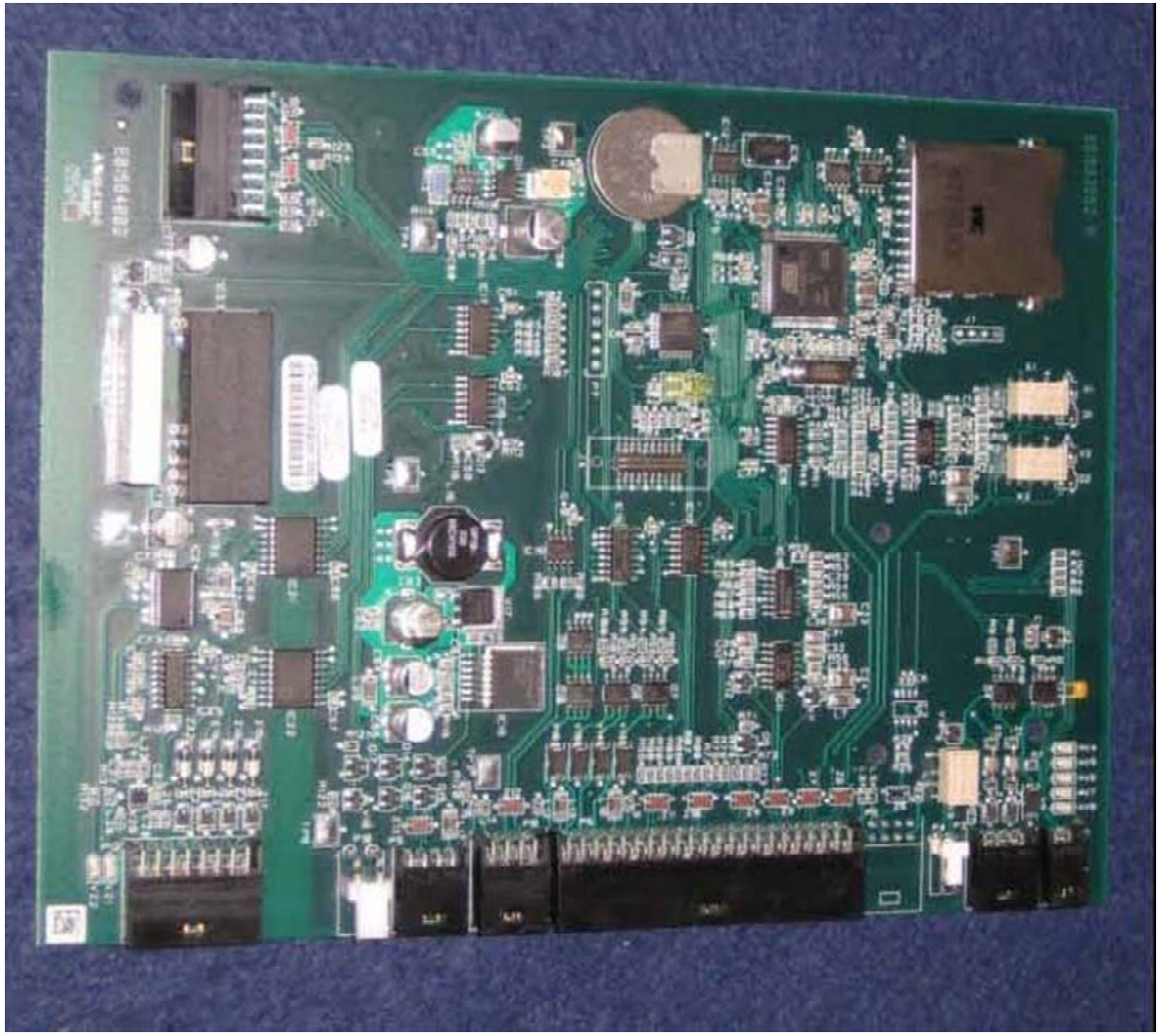
WTW501008001

SPARE PART INFORMATION
Used on the Casing Tray WTW501004001



CPU
BOARD
WTW502001003
WTW502001003R

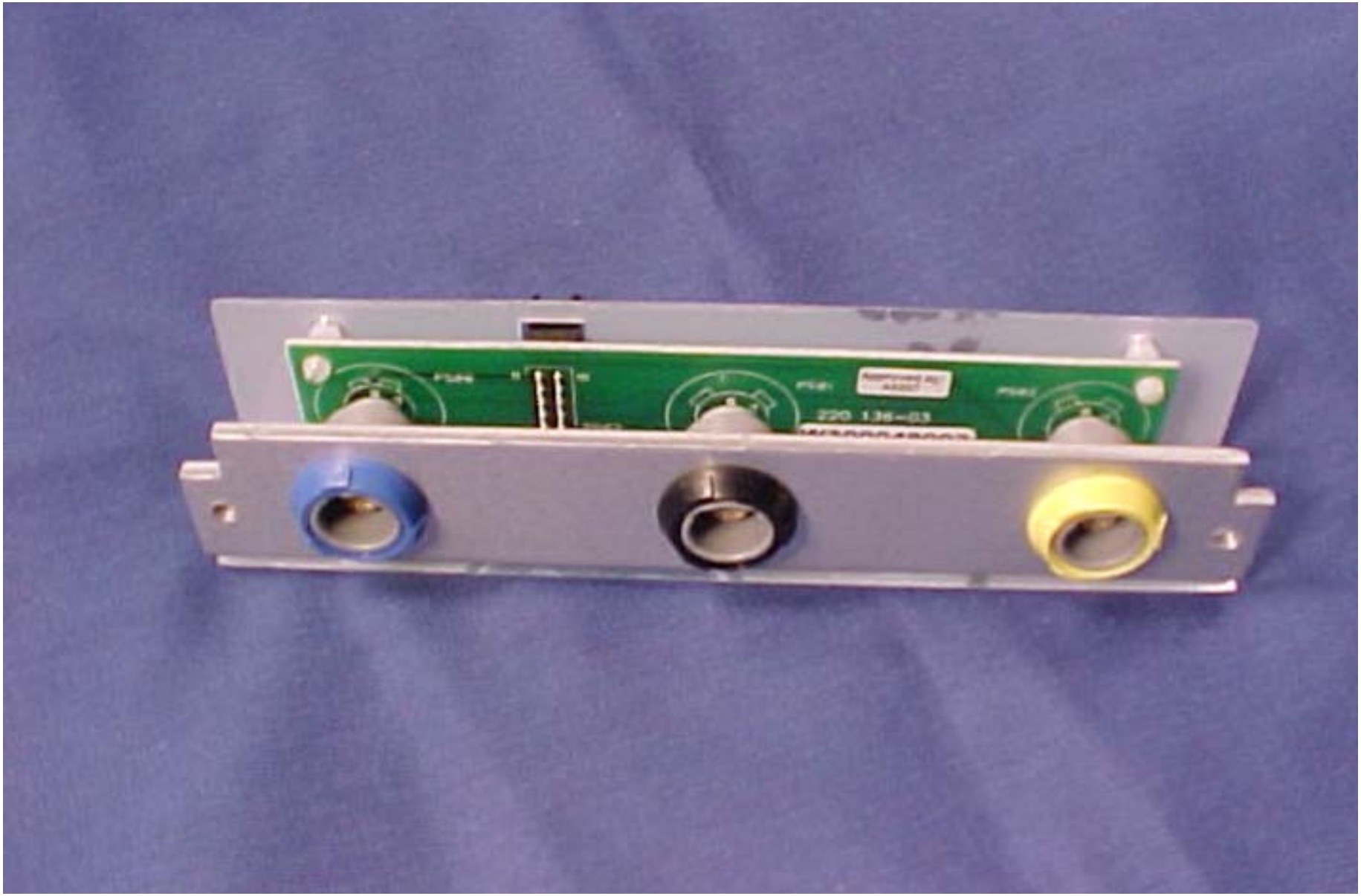
SPARE PART INFORMATION
For machines SN5996 and lower unless the CPU has been replaced with the 4.3 software version CPU.



CPU

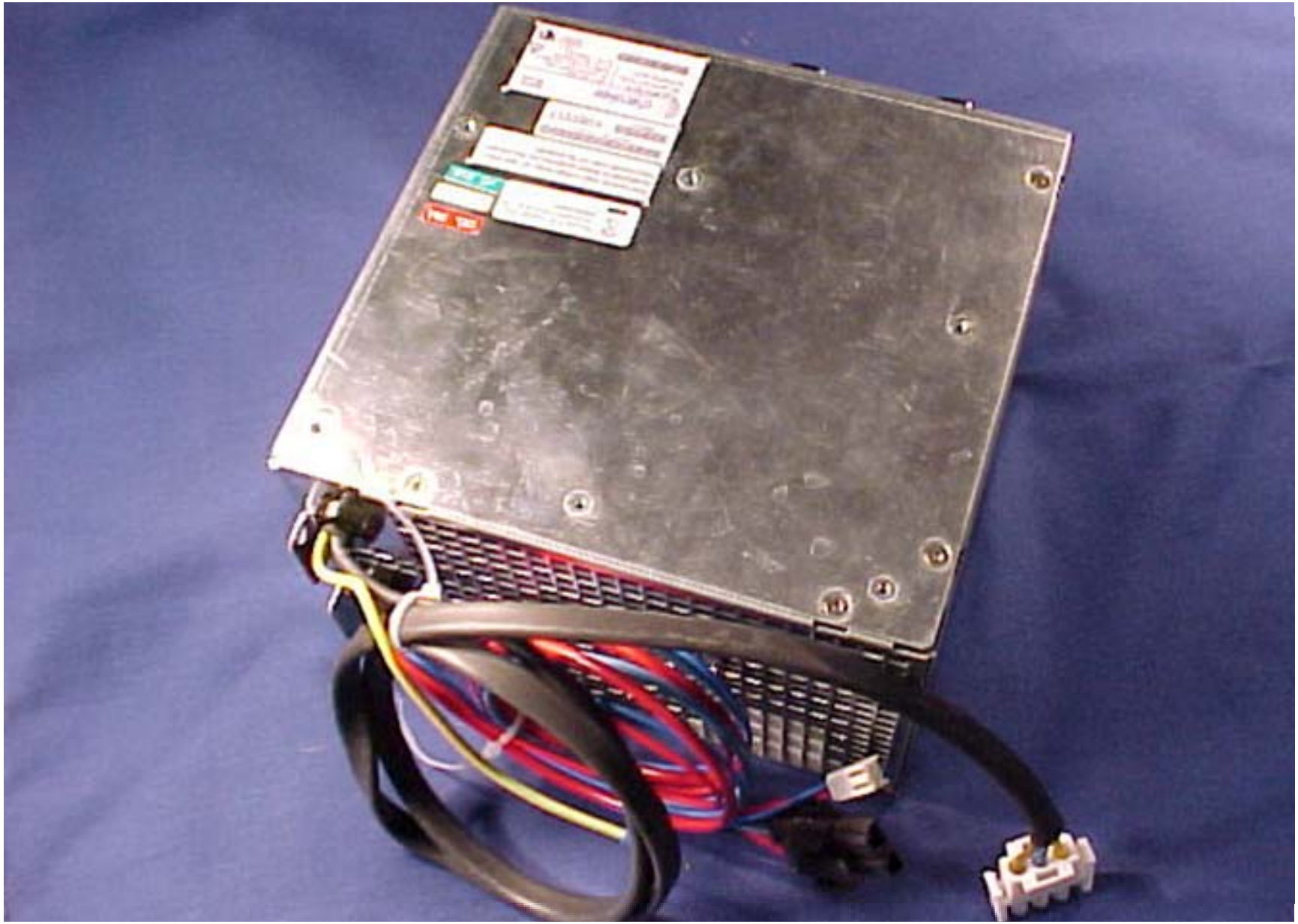
WTW502001004

SPARE PART INFORMATION
For machines SN5997 and higher or on older machines that the CPU has been replaced with the 4.3 software version CPU WTW502001004



EXT. COM. BOARD COMPLETE WTW502002001

SPARE PART INFORMATION
The center, (black) port is the only one used in the US.



POWER
SUPPLY UNIT

WTW502003006

OVERLAY

WTW503001001

SPARE PART INFORMATION
Overlay attaches by an adhesive backing

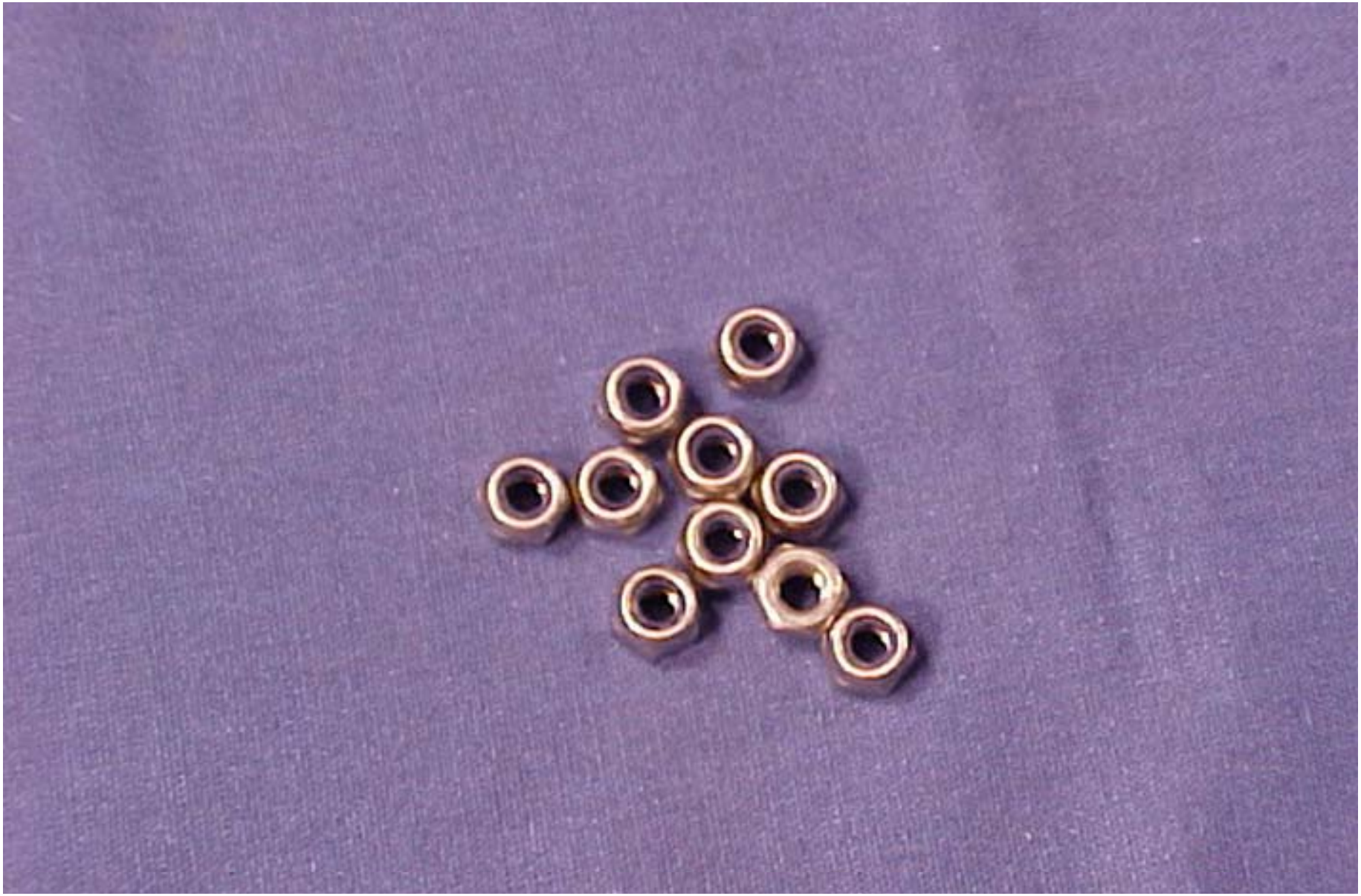
OVERLAY
WRO300H

WTW503002001

LOCKING NUT
M4

WTW504001001

SPARE PART INFORMATION
Used for mounting the Flow Pump Unit



LOCKING NUT
M5

WTW504002001

SPARE PART INFORMATION
Used for attaching the mounting blocks to the RO Module

SCREW
M3 x 6

SPARE PART INFORMATION
Used for mounting the valves on the Flow Block

WTW504016001

CABLE - CPU TO DISPLAY

WTW505001001

SPARE PART INFORMATION
For machines SN5996 and lower unless the CPU has been replaced with the 4.3 software version CPU. This cable attaches the display PCB (User interface) to the CPU

CABLE
CPU TO DISPLAY
(User Interface)

WTW505001002

SPARE PART INFORMATION
Needed for machines SN5997 and higher or on older machines that the CPU has been replaced the 4.3 software version CPU WTW502001004

CABLE
HARNESS

WTW505002001

CPU - PCB
CABLE

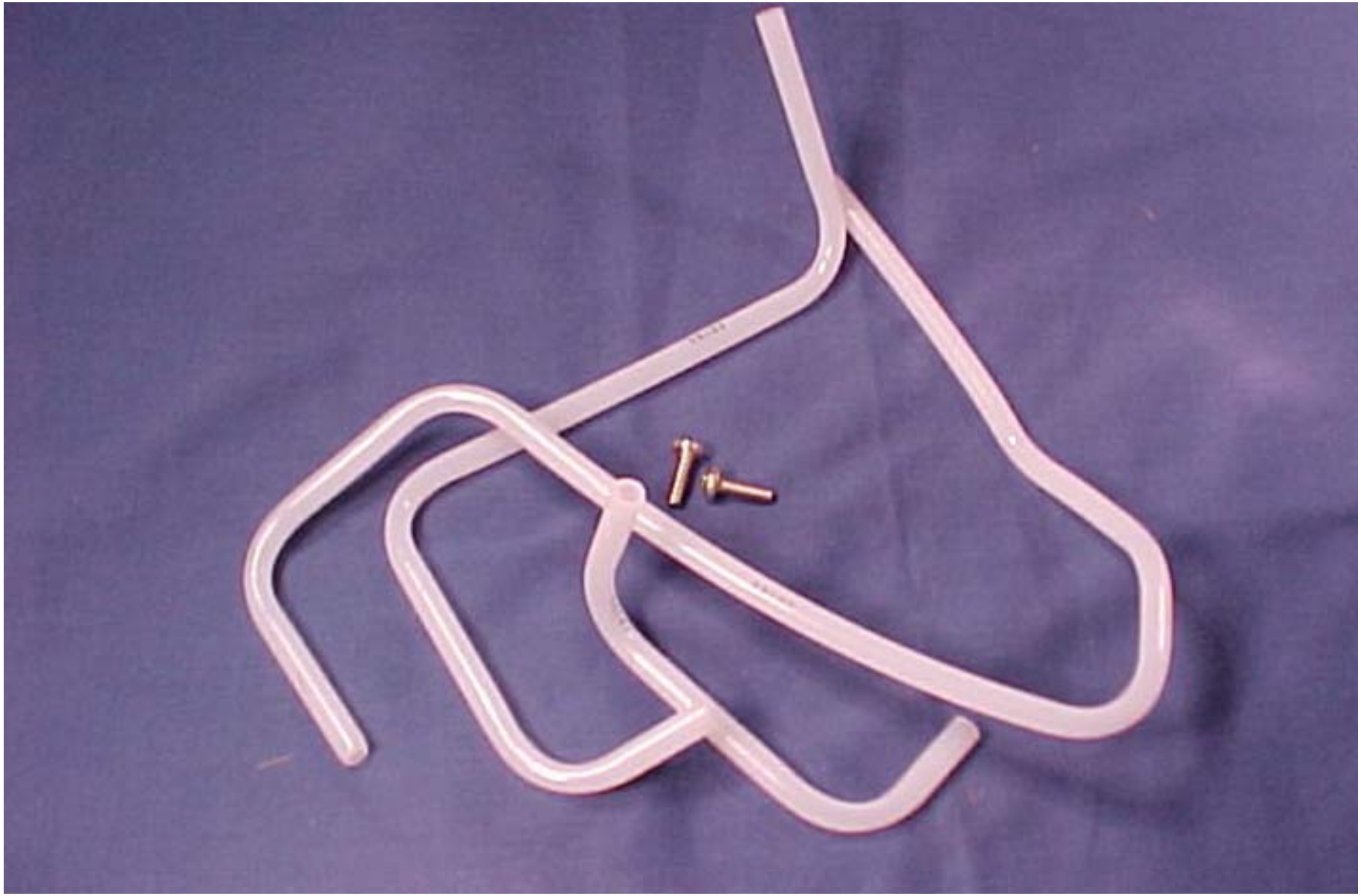
WTW505003001

SPARE PART INFORMATION
CPU to External Communications

CABLE - CPU TO FAN

SPARE PART INFORMATION
This cable attaches the Cooling Fan to the CPU

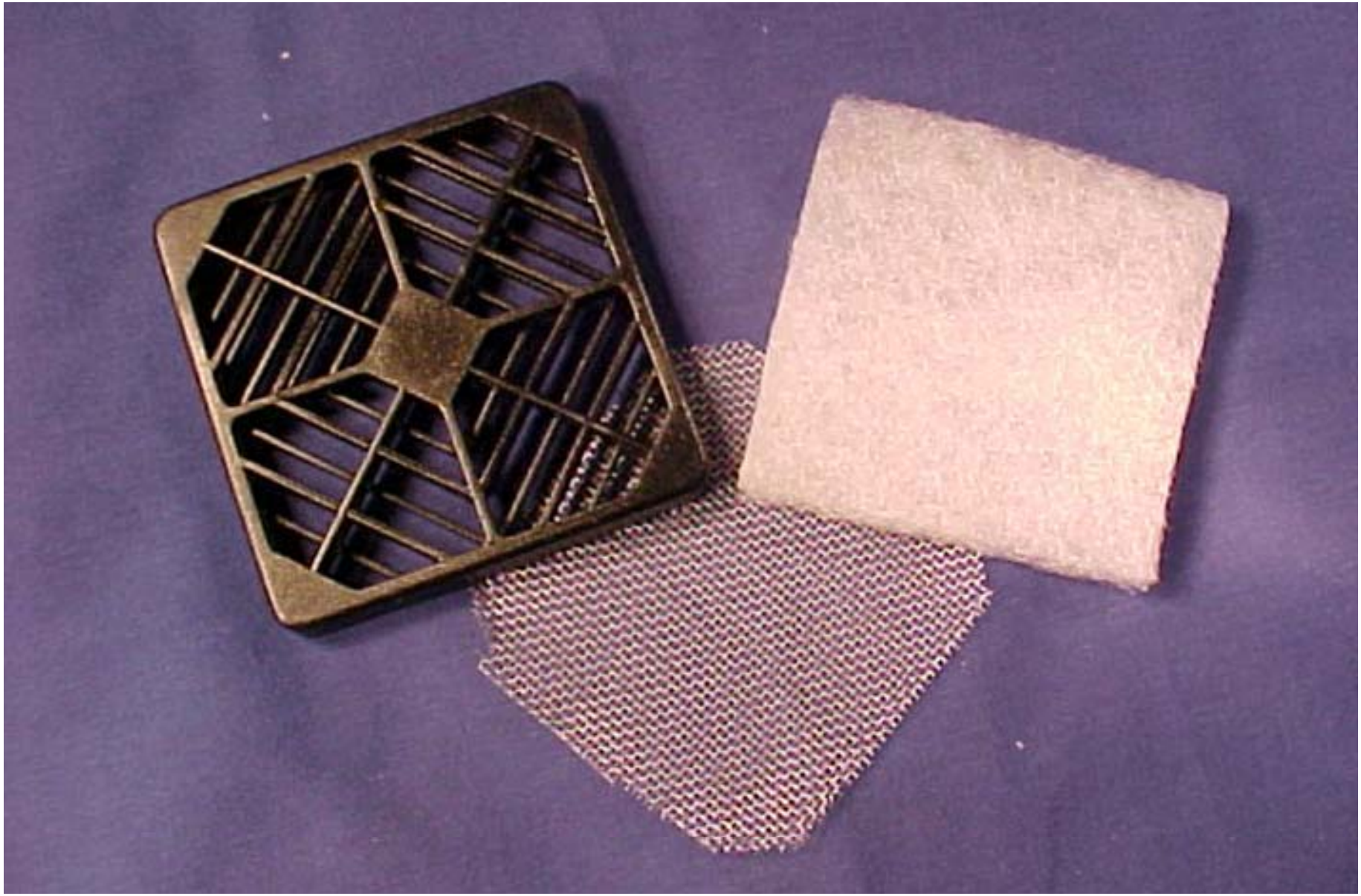
WTW505004001



PEX KIT FOR RO MODULE

WTW506003001

SPARE PART INFORMATION
Not shown in manual, used on both ends of the RO module, (Membrane)

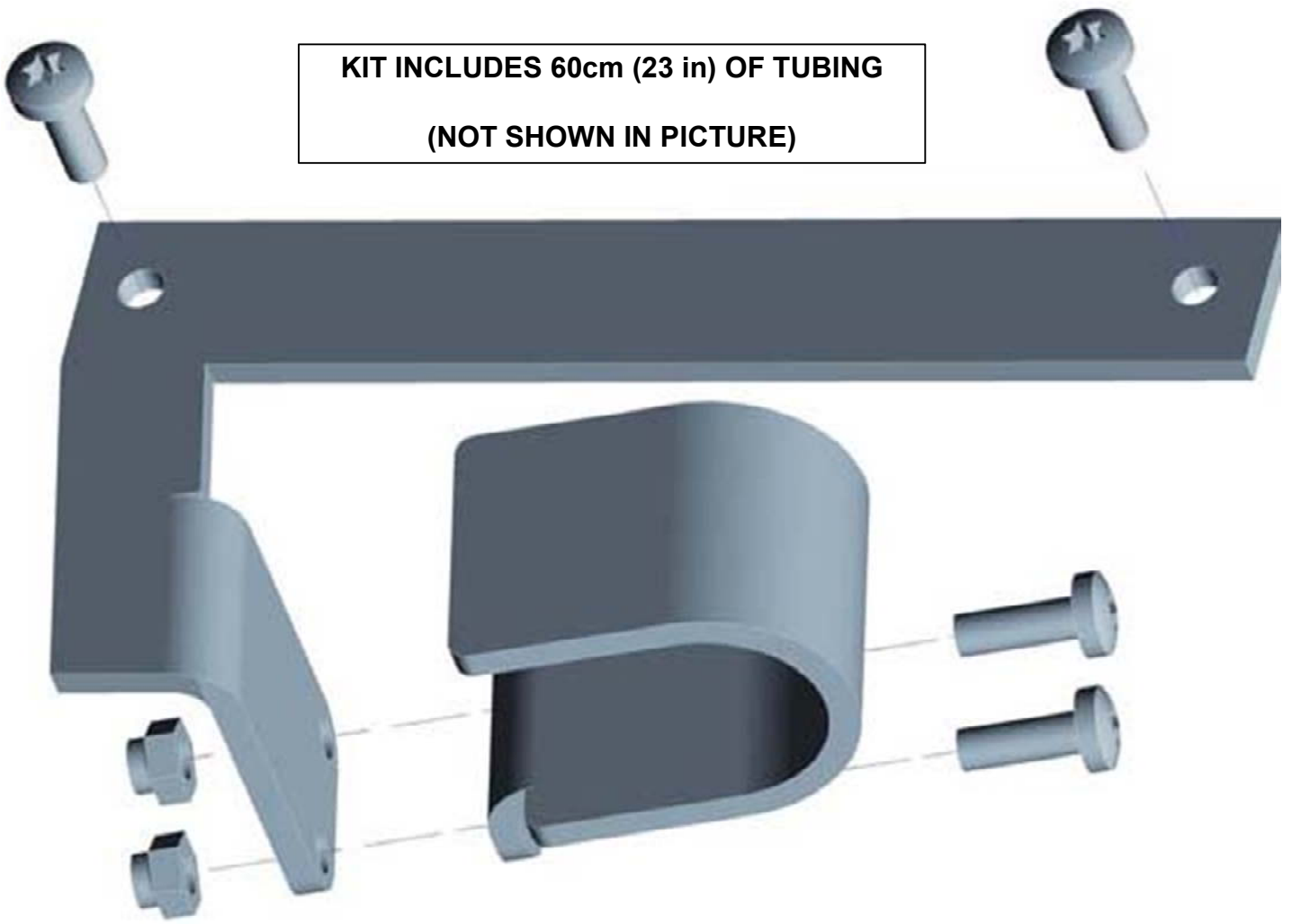


FILTER KIT AIR
POWER SUPPLY

WTW506008001

KIT INCLUDES 60cm (23 in) OF TUBING

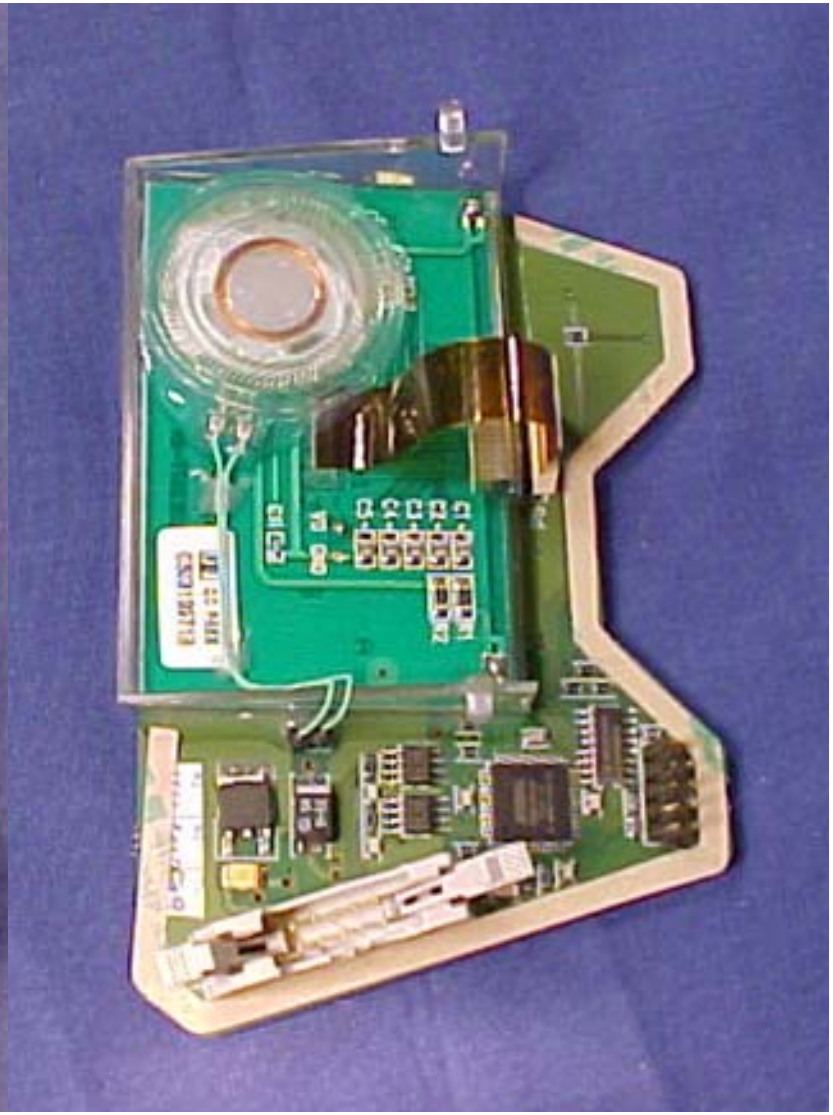
(NOT SHOWN IN PICTURE)



CHEM PUMP KIT

WTW506010003

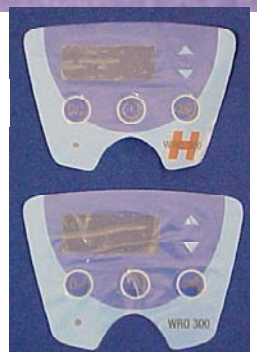
SPARE PART INFORMATION
Refer to Service Newsletter GI046



WTW503002001

Both Overlays are included

WTW503001001



USER INTERFACE

WTW506015001

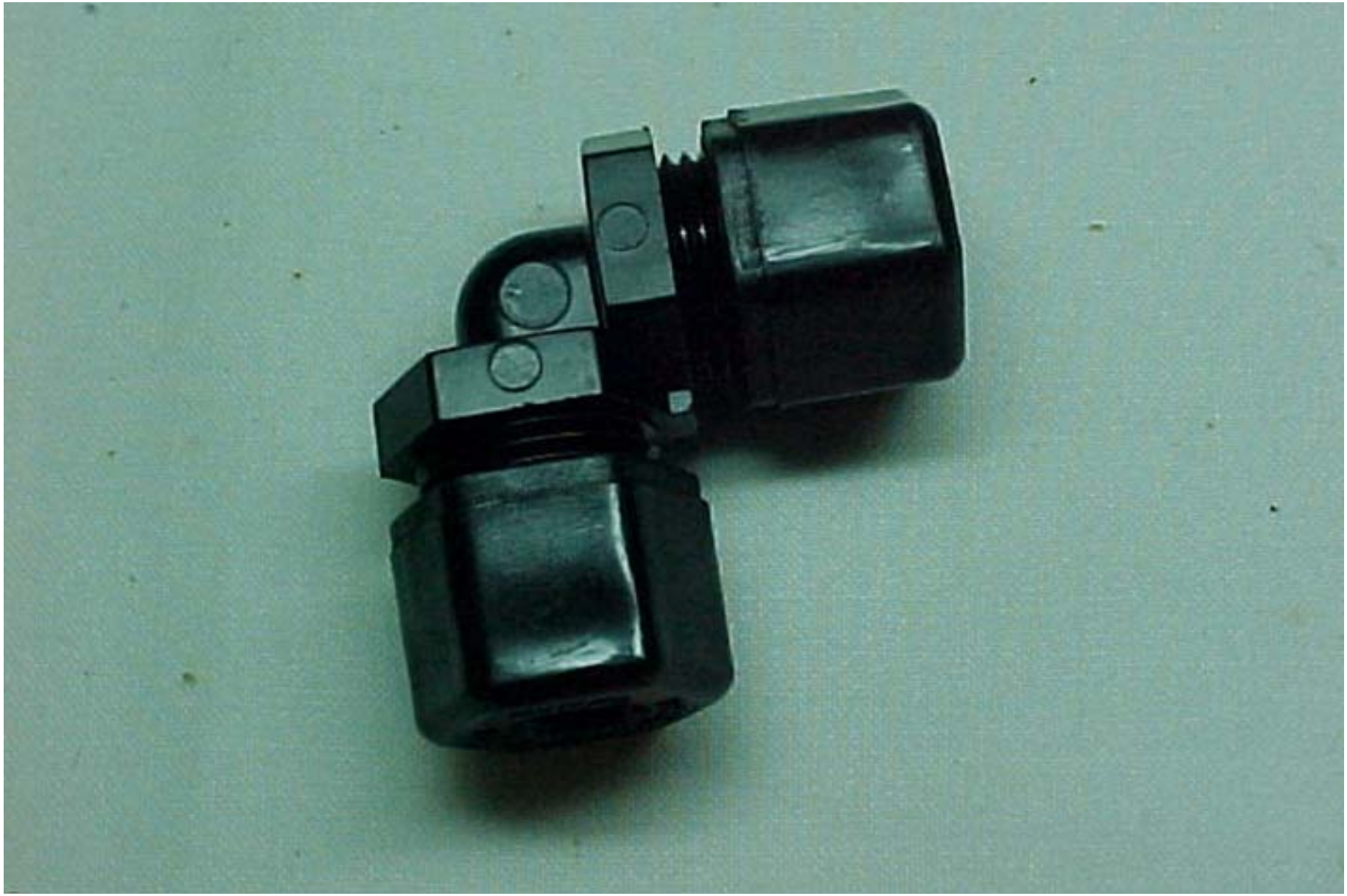
SPARE PART INFORMATION
For machines SN5996 and lower unless the CPU has been replaced with the 4.3 software version CPU.

Both Overlays are included

USER INTERFACE KIT

WTW506015002

SPARE PART INFORMATION
Needed for machines SN5997 and higher or on older machines that the CPU has been replaced the 4.3 software version CPU WTW502001004



CONNECTOR
ANGLE JOINT

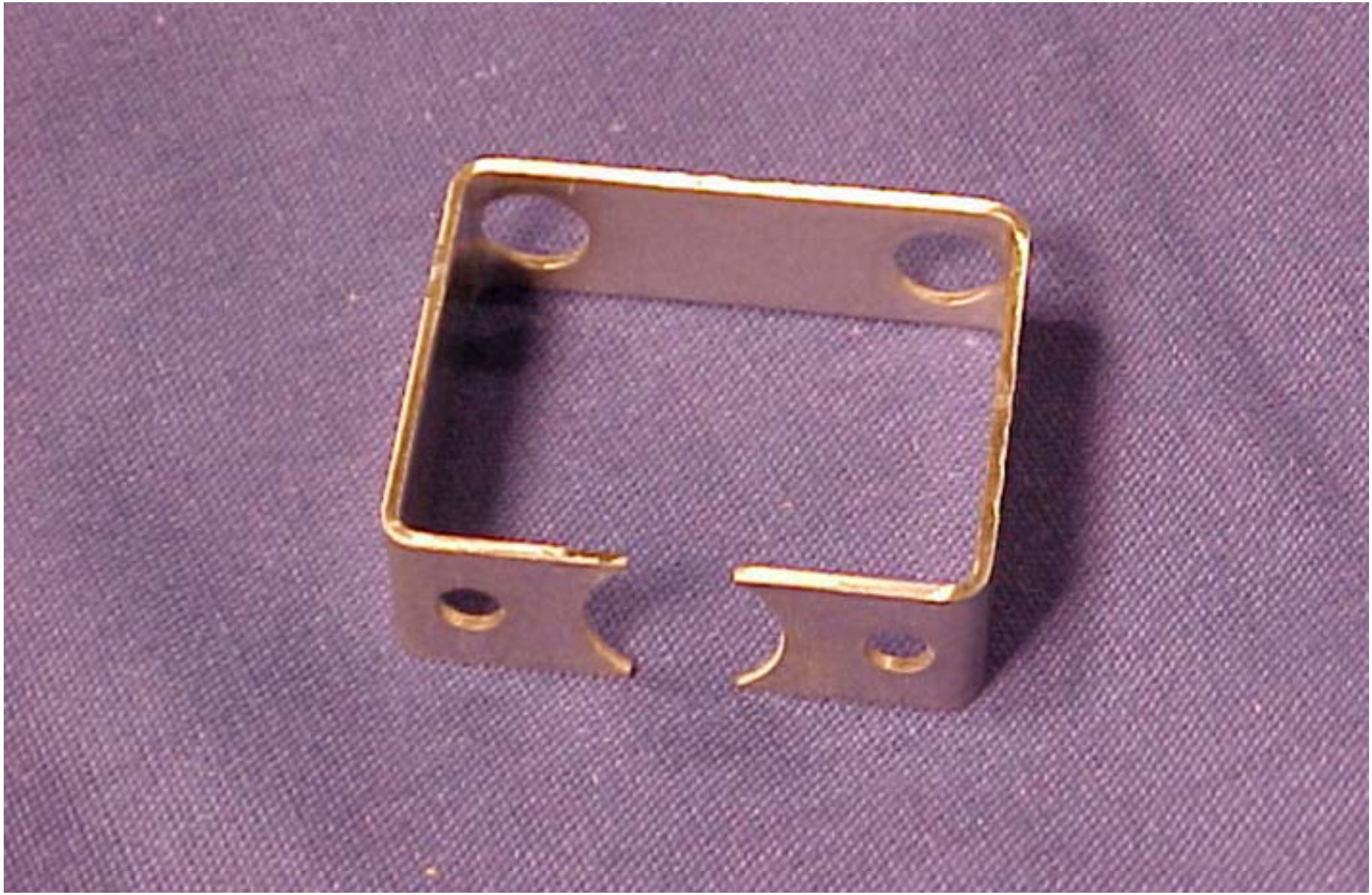
WTW507001001

SPARE PART INFORMATION
Used on one end of the membrane housing

CONNECTOR STRAIGHT

WTW507003001

SPARE PART INFORMATION
Used on one end of the membrane housing



CONNECTOR
SAFETY CLIP

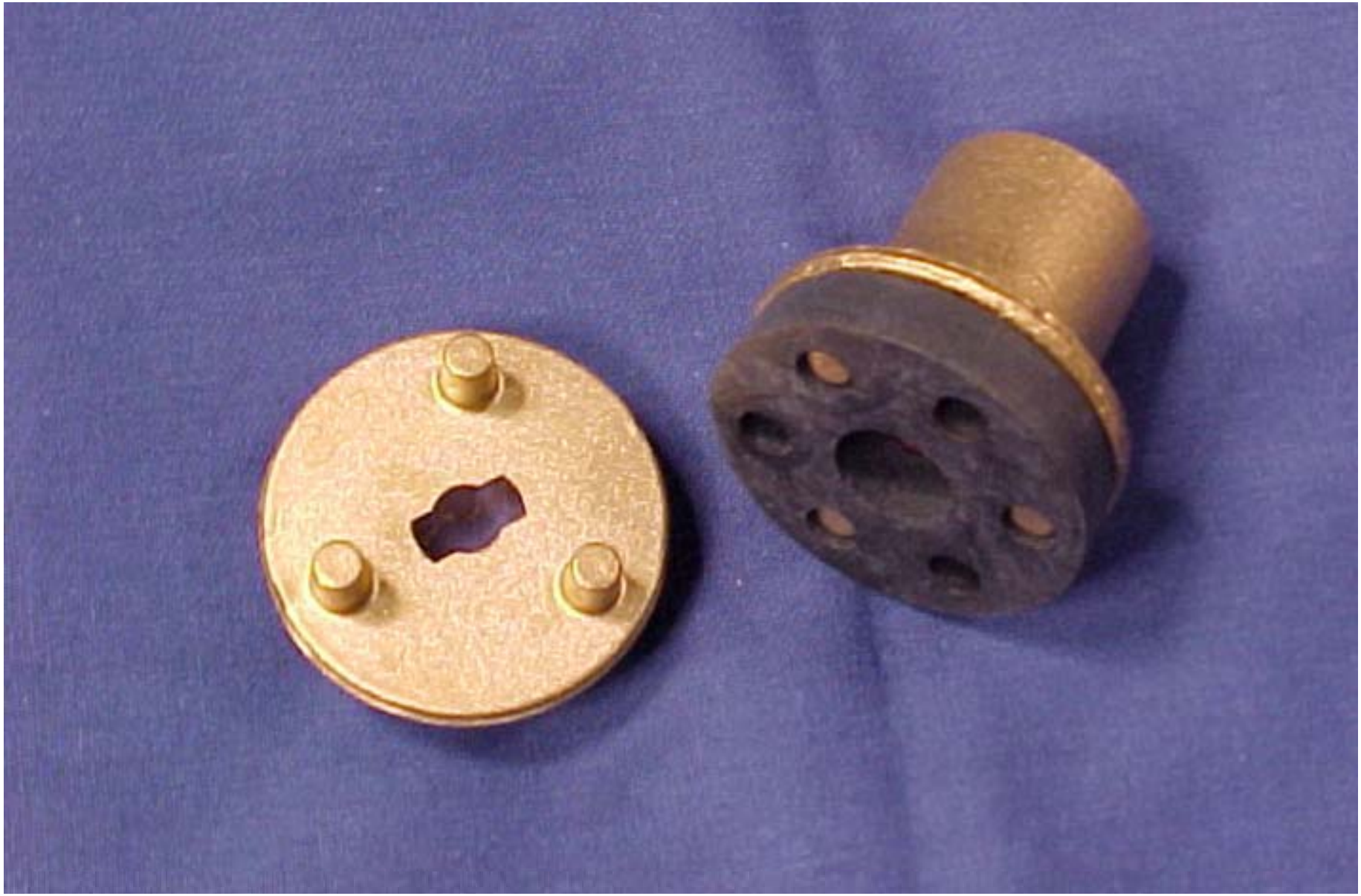
WTW507004001

SPARE PART INFORMATION
Used on top of Water Tank to hold the silicon elbow in place

CONNECTOR
STRAIGHT

WTW507005001

SPARE PART INFORMATION
This part was part of the original pretreatment kit, **No Longer Used**



COUPLING
14MM

WTW507006001

SPARE PART INFORMATION
This is the coupling between the Flow Pump Motor and Pump Head

HOSE CLAMP
14-12.5 mm
10 PK
WTW507007001

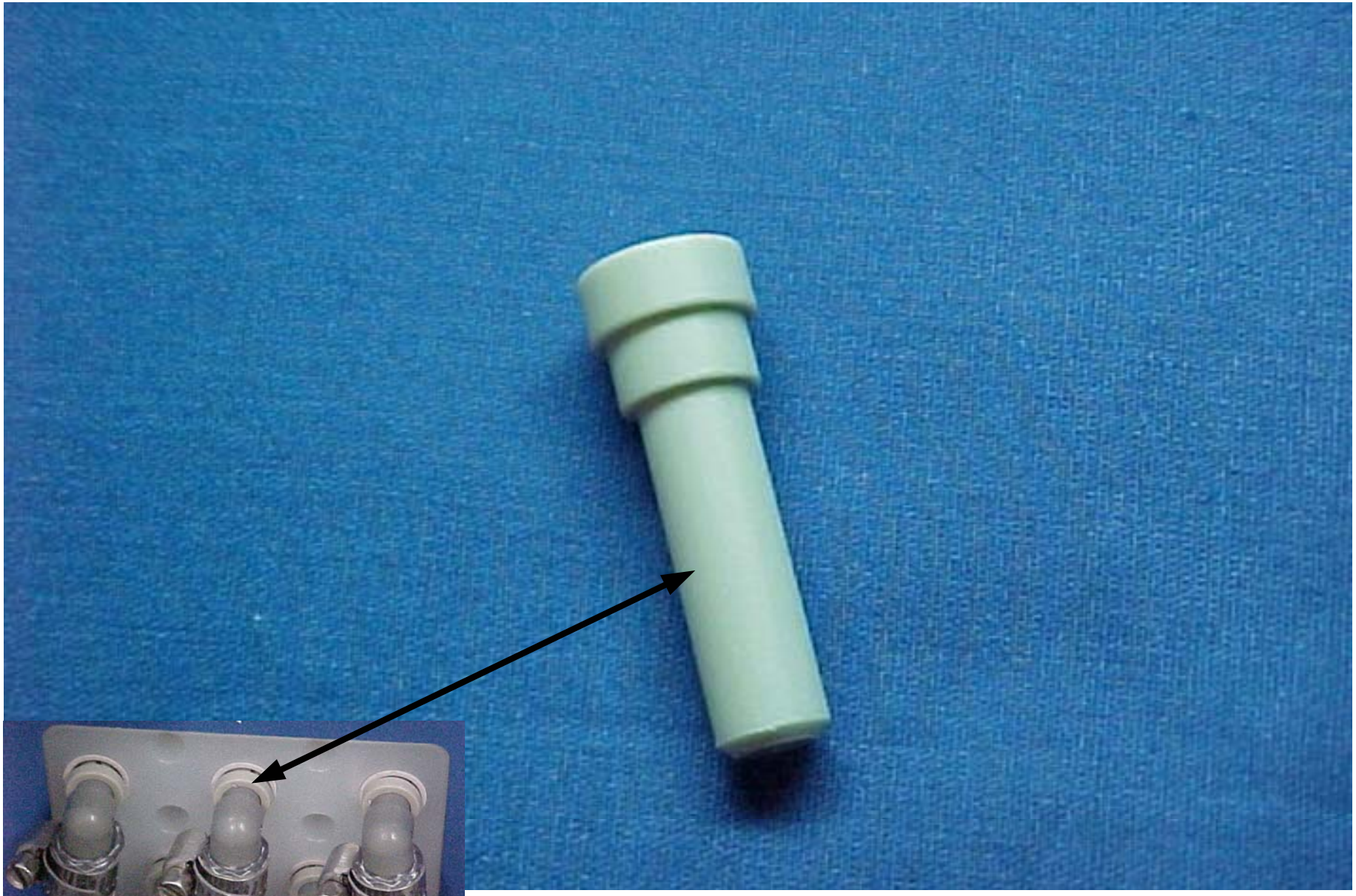
SPARE PART INFORMATION
Used on all the pretreatment hose connections

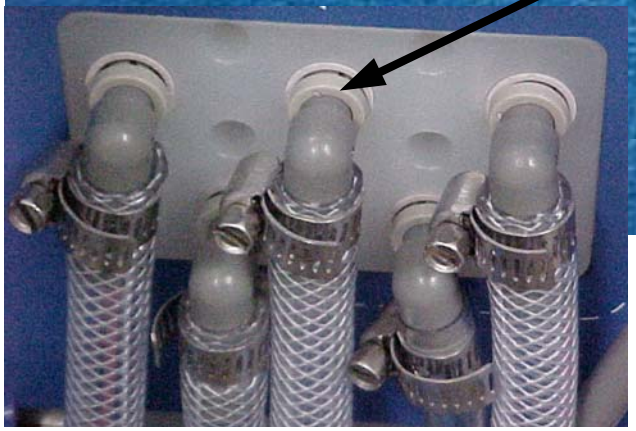
NIPPLE
STRAIGHT
10PK
WTW507010001

SPARE PART INFORMATION
Used on the bottom of the Chemical Intake Pump

RAPIER
RECEPTICAL
4mm
WTW507012001

SPARE PART INFORMATION
Used on Casing Back panel and Bottom Tray. **(Female Screw Receptical)**





TPL-PLUG
5/16"

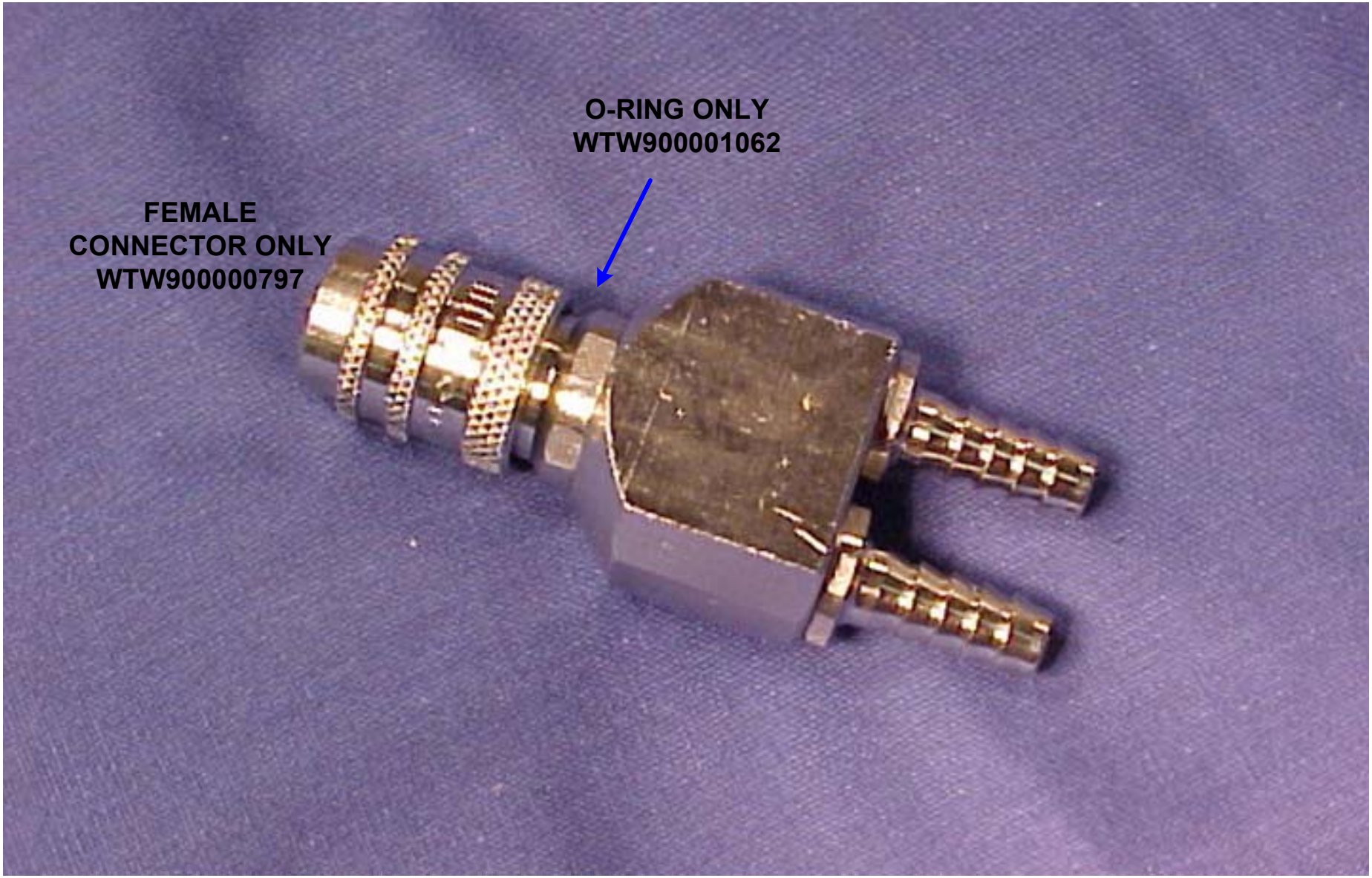
WTW507015001

SPARE PART INFORMATION
These are the plugs that are removed at installation. They should be kept and stored, they will be used if preservation is needed

SPARE PART INFORMATION
Used on the end cap of the Membrane Housing so that a pressure gauge can be attached. Refer to Service Newsletter GI011

COUPLING TO PEX
Male 1/4” X 1/8"
WTW507021002

SPARE PART INFORMATION
This part can be screwed directly into the water inlet fitting on the back of the Phoenix, the Y Coupling, (WTW507022001), from the RO, will connect to it.



Y-COUPLING
SS 6MM

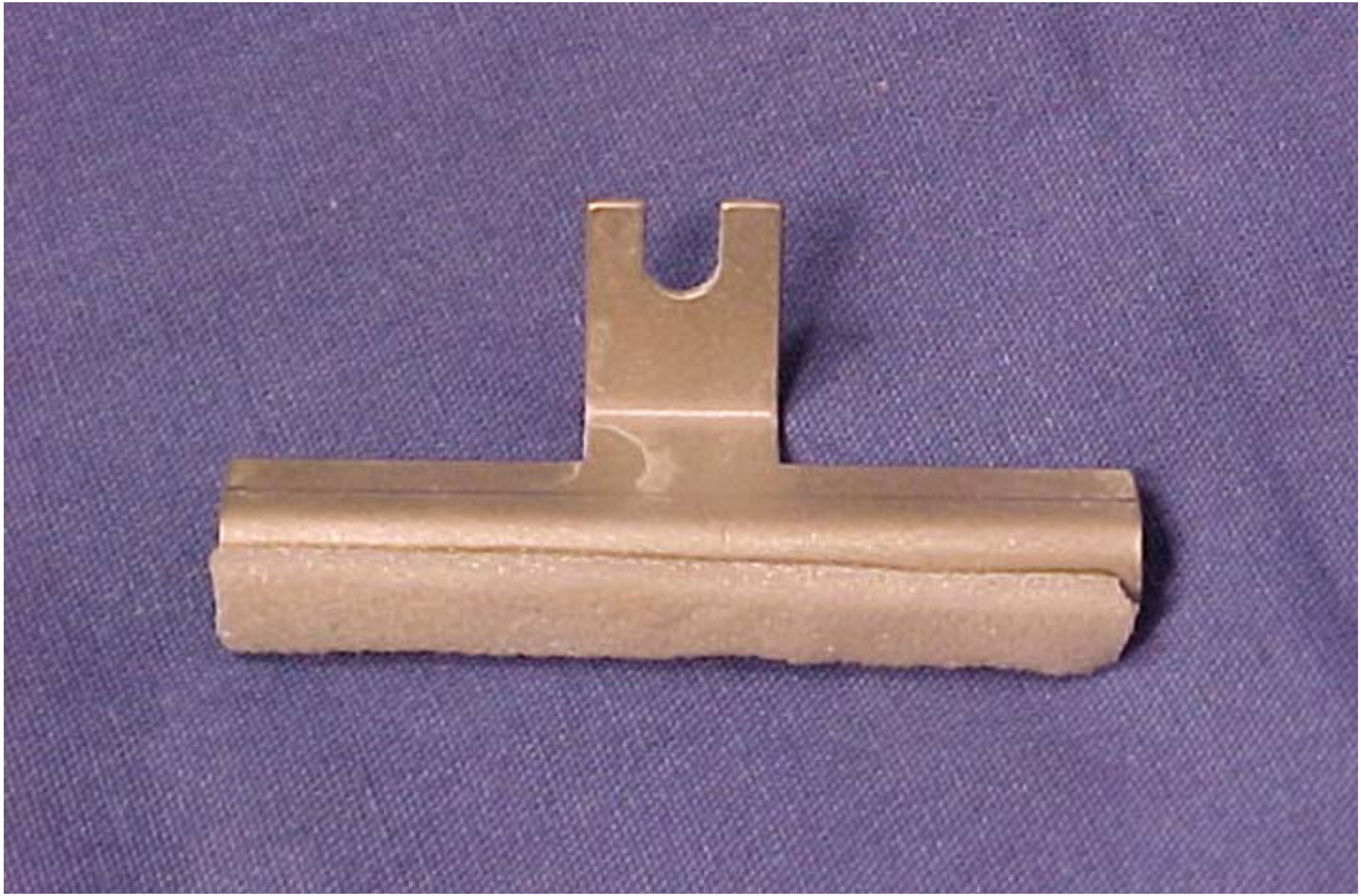
WTW507022001

SPARE PART INFORMATION
Used on the Product
Water line

COUPLING FOR GAUGE

SPARE PART INFORMATION
Used on Gauges for Test Fixtures

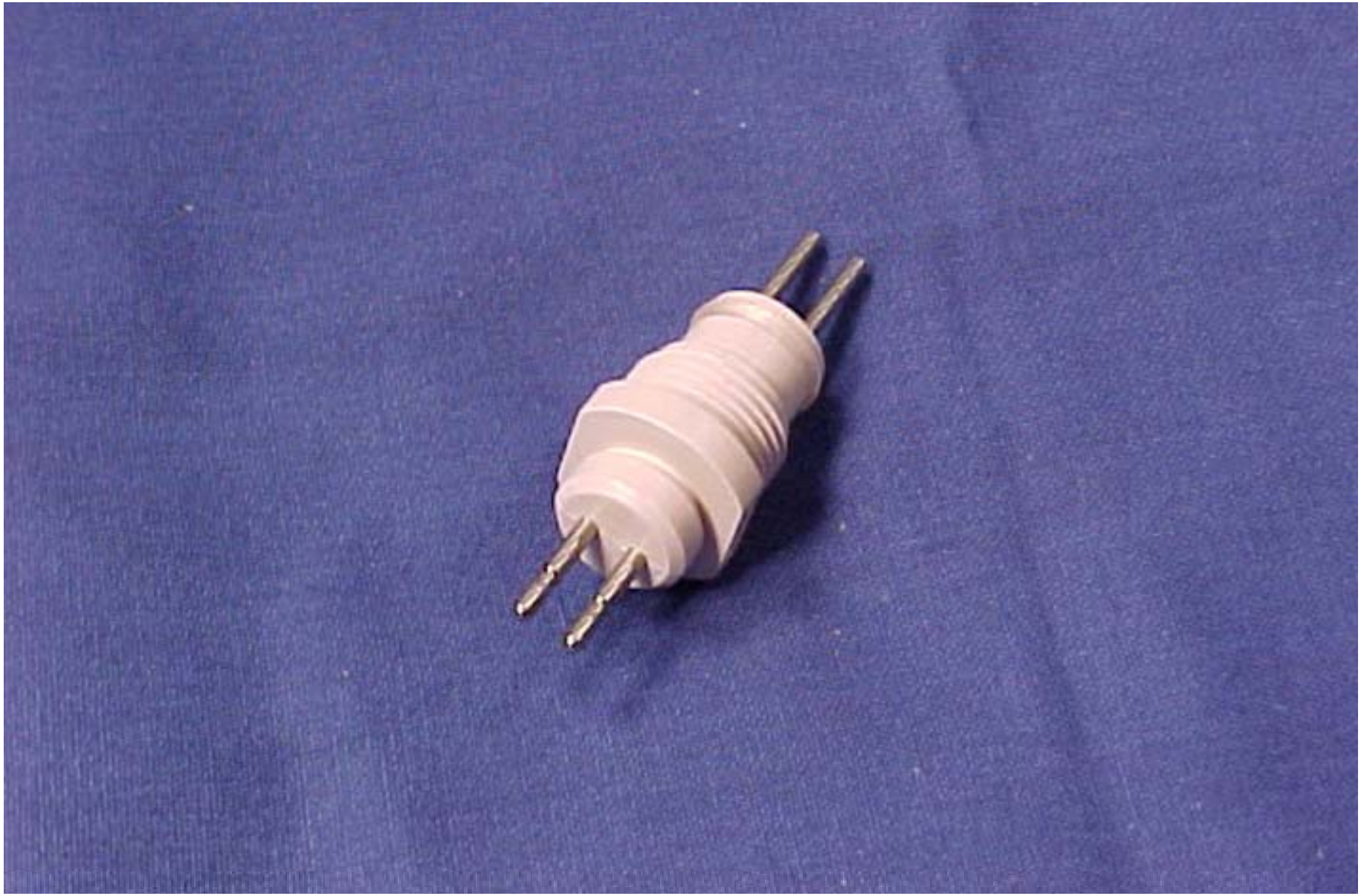
WTW507024001



CLIP PCB COMPLETE

SPARE PART INFORMATION
Used to hold the CPU in place

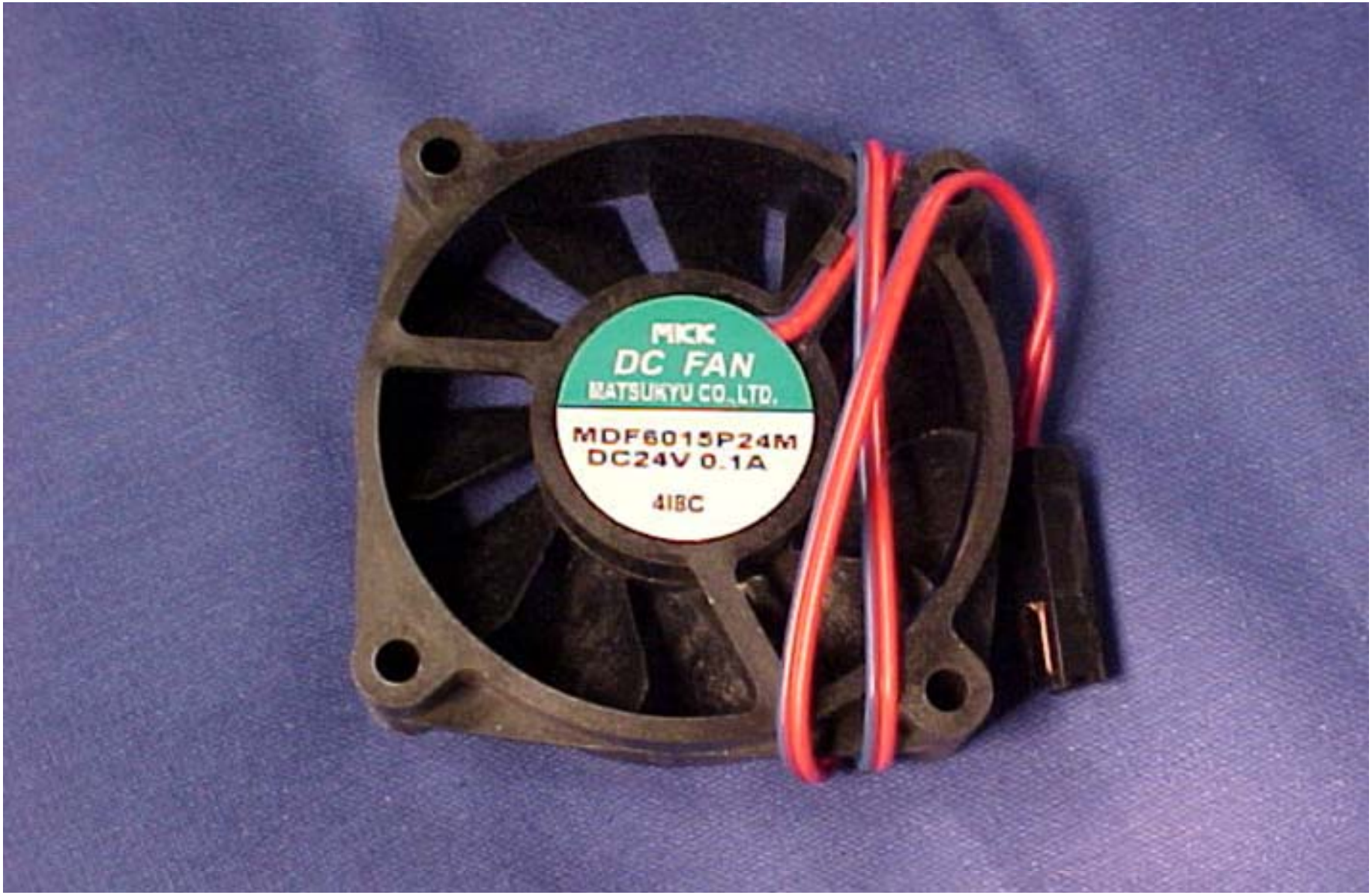
WTW508001001



CONDUCTIVITY CELL

WTW508002001

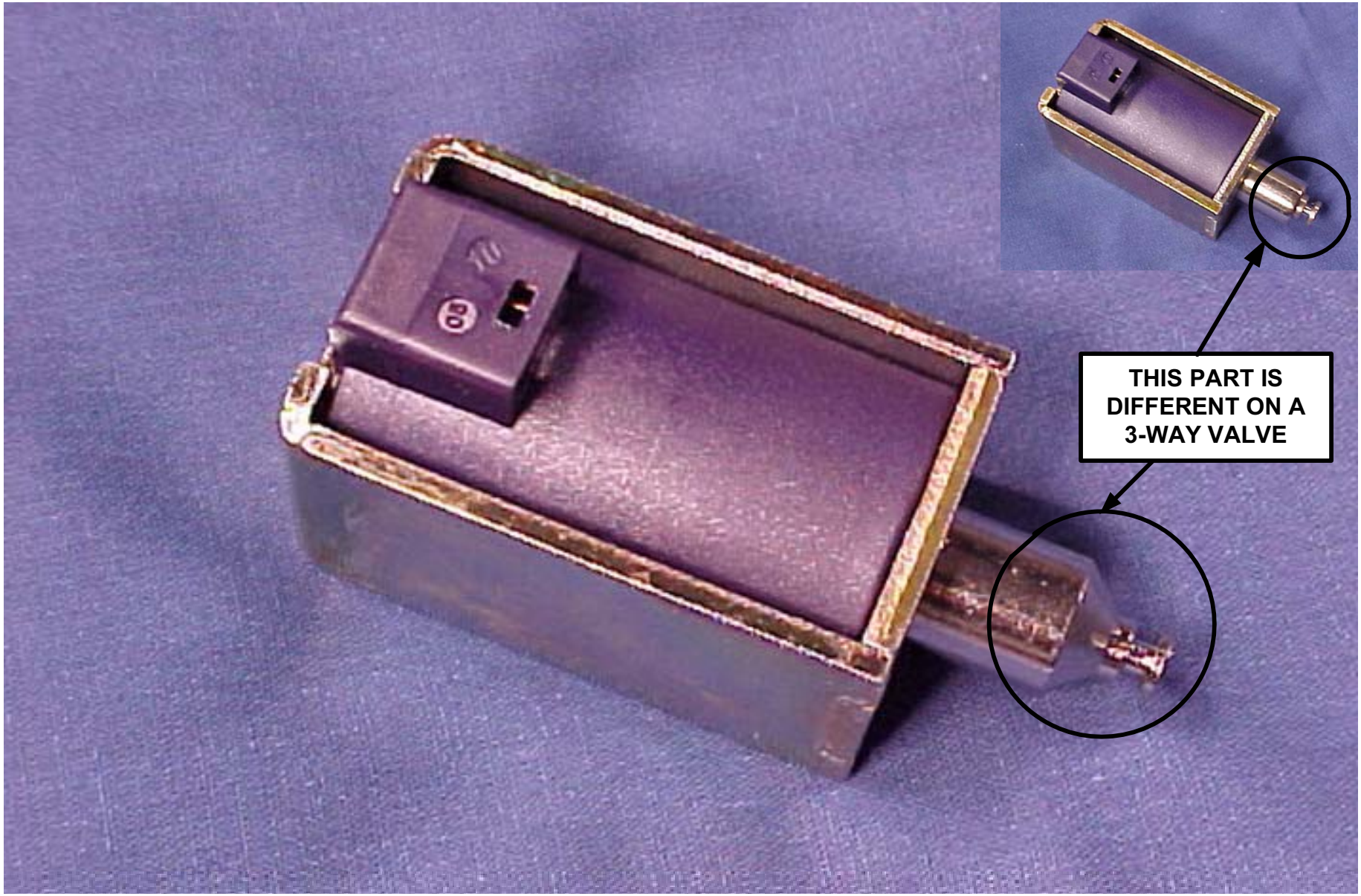
SPARE PART INFORMATION
Both Condo Cells are the same part number



FAN
COMPLETE

WTW508003002

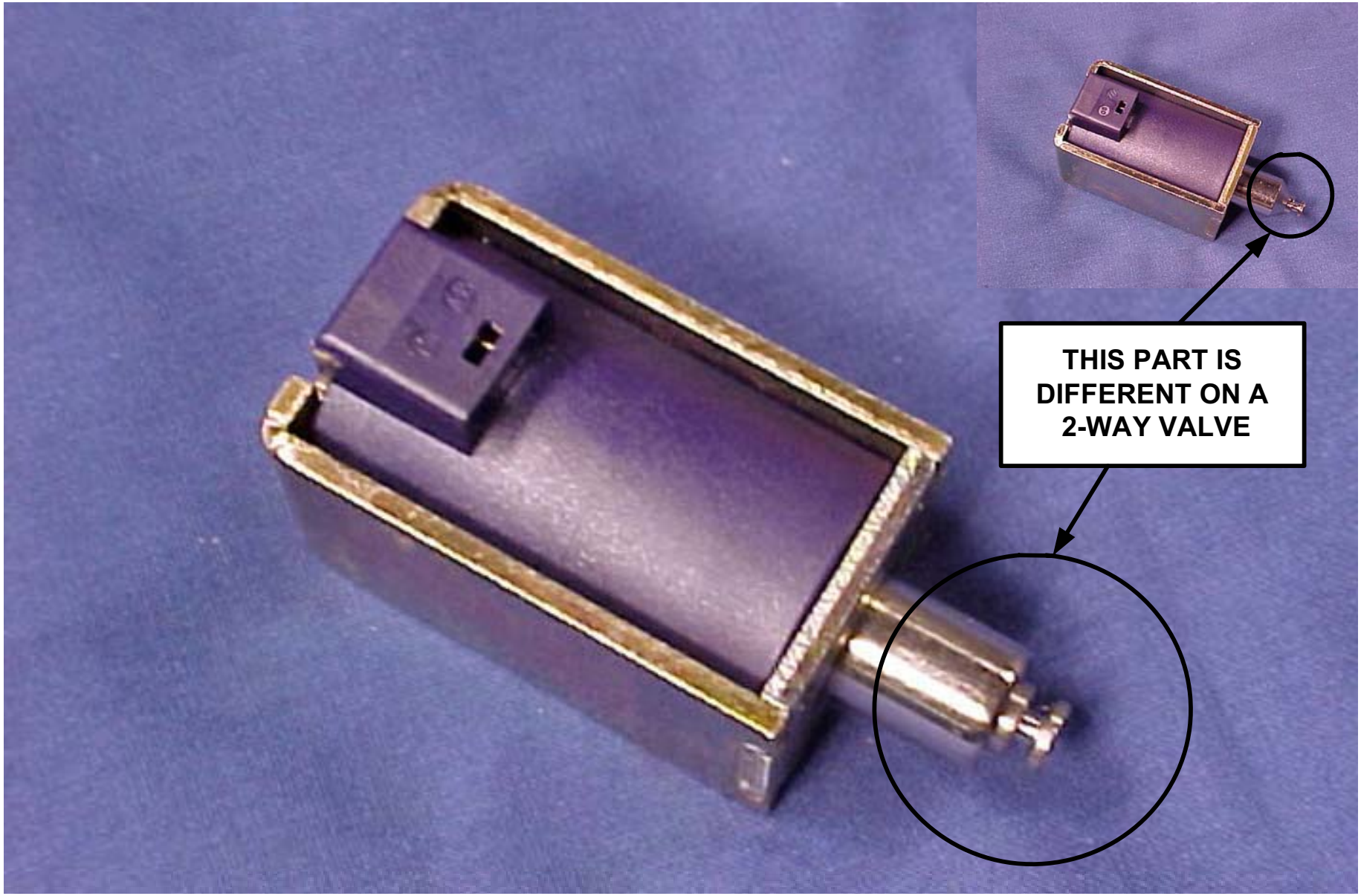
SPARE PART INFORMATION
Interface cable for the fan to the CPU is WTW505004001



MAGNET
2-WAY VALVE

WTW508004001

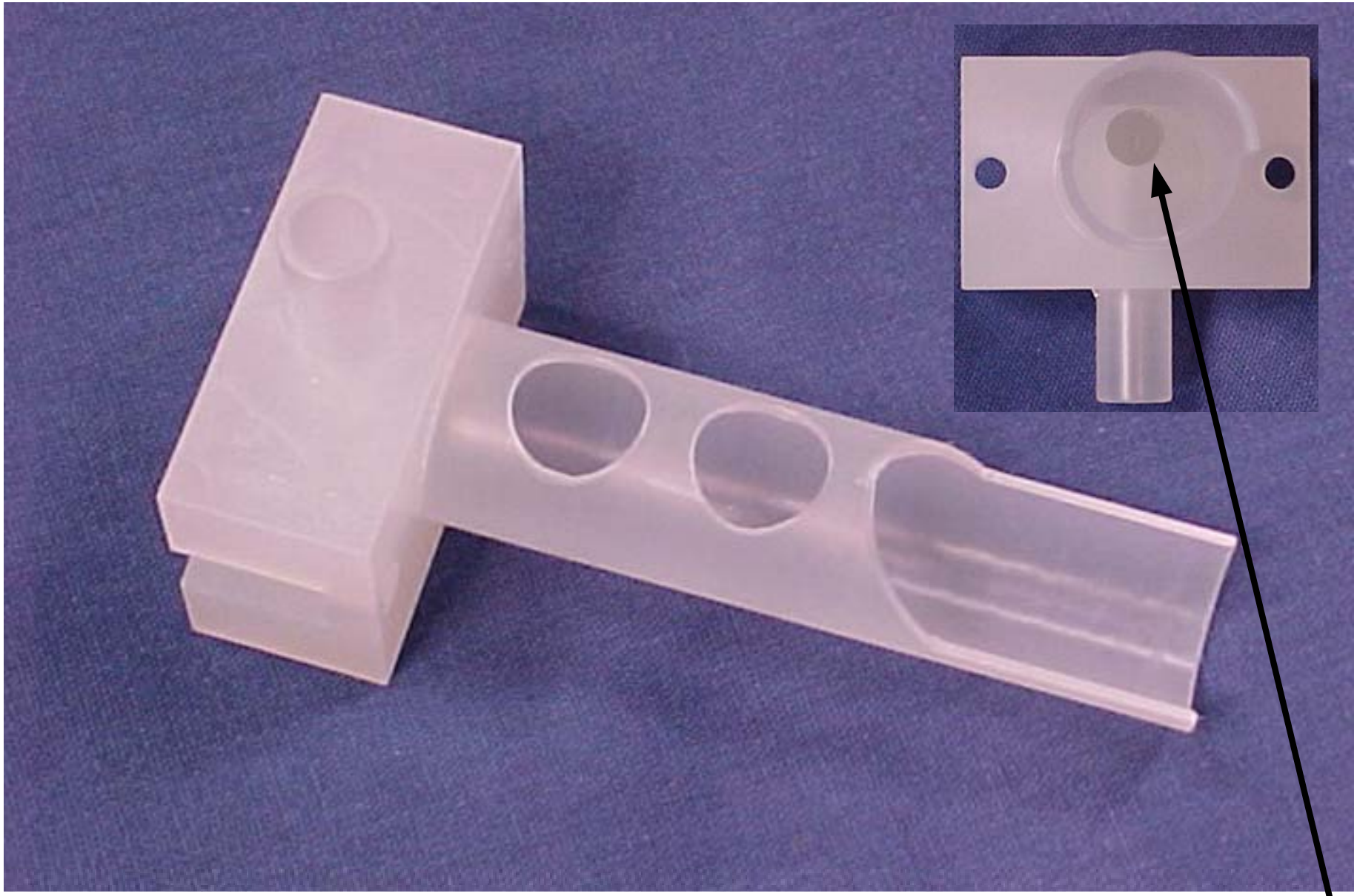
SPARE PART INFORMATION
Used for the Inlet, Overflow and Bypass Valves.



MAGNET
3-WAY VALVE

WTW508005001

SPARE PART INFORMATION
Used for the Reject Valve



AIR VENT

WTW508006002

SPARE PART INFORMATION
This part replaces the Tank Overflow, which is no longer spared, the difference is the hole inside is much larger on the Air Vent

SPRAY NOZZLE

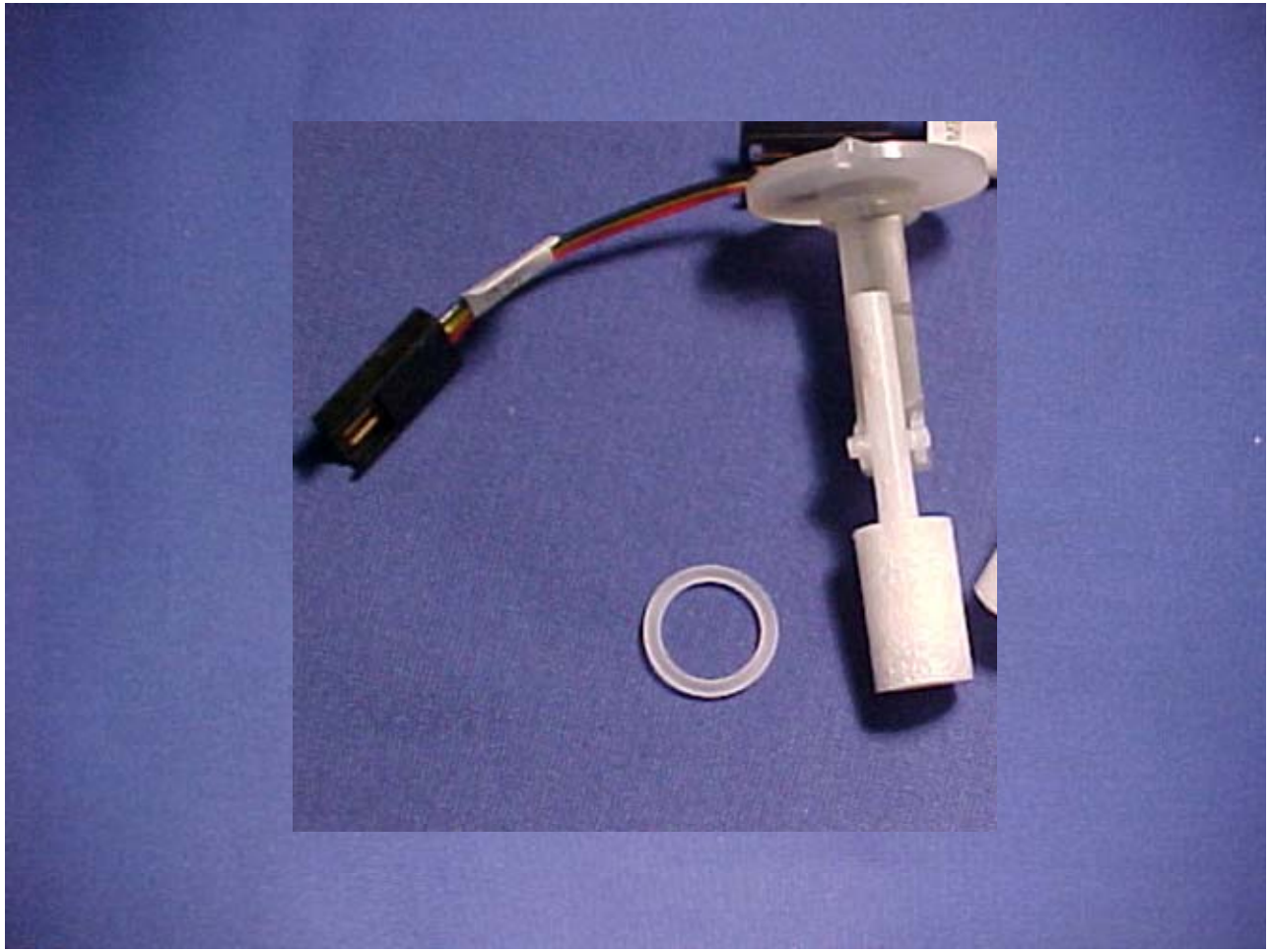
WTW508007001

SPARE PART INFORMATION
Mounted on top of the Water Tank

VALVE SCREW
(Needle Valve)

WTW508010001

SPARE PART INFORMATION
The Valve Screw does not include the o-ring, WTW511007001



FLOAT LEVEL SWITCH

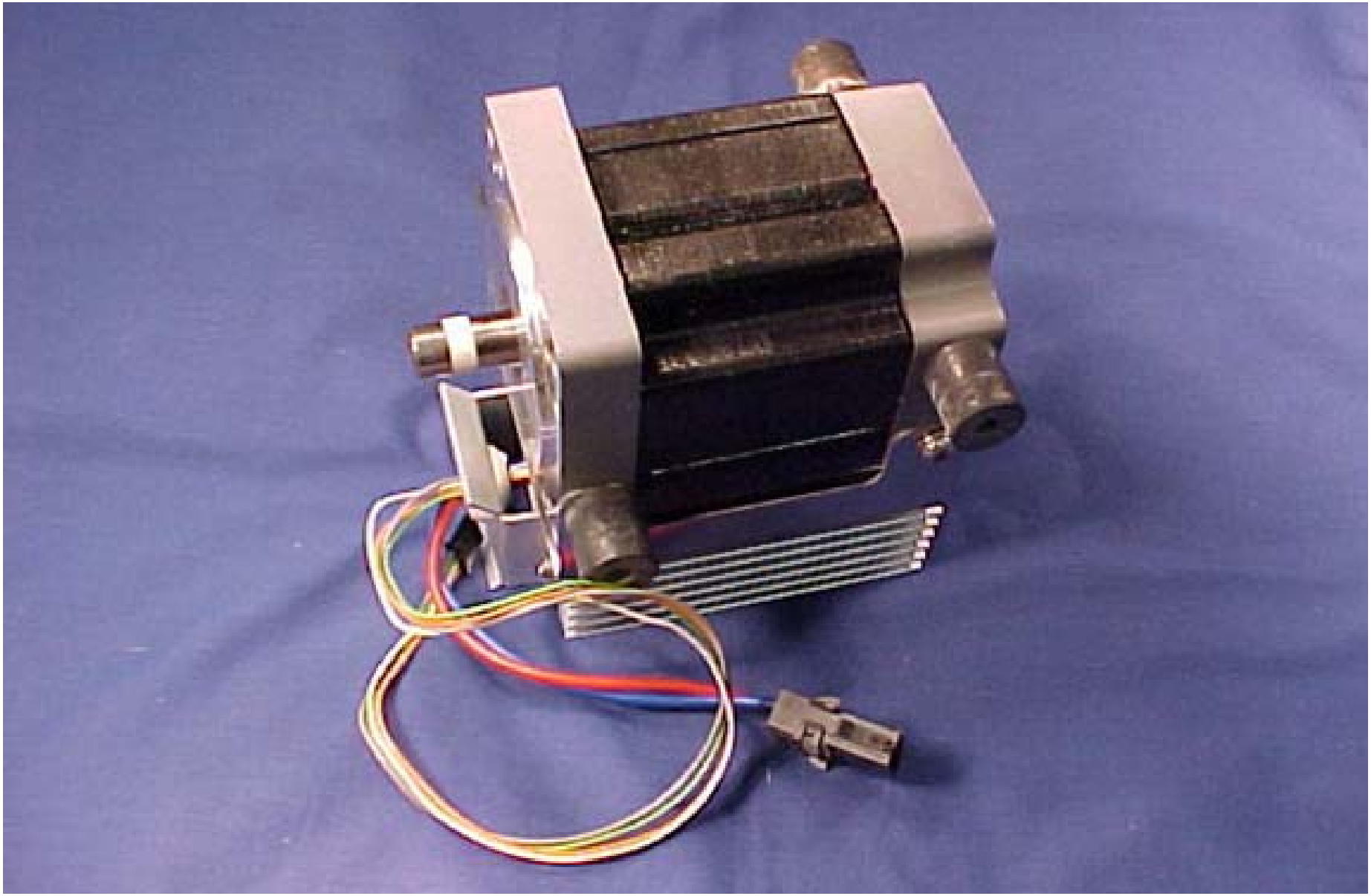
WTW508013002

SPARE PART INFORMATION
(NOW SOLD AS EACH) **See Tech Update 10067 for information about upgrading from optical sensors**

VALVE MEMBRANE

WTW509001001

SPARE PART INFORMATION
The Membranes are the same part in all 4 Valves



MOTOR

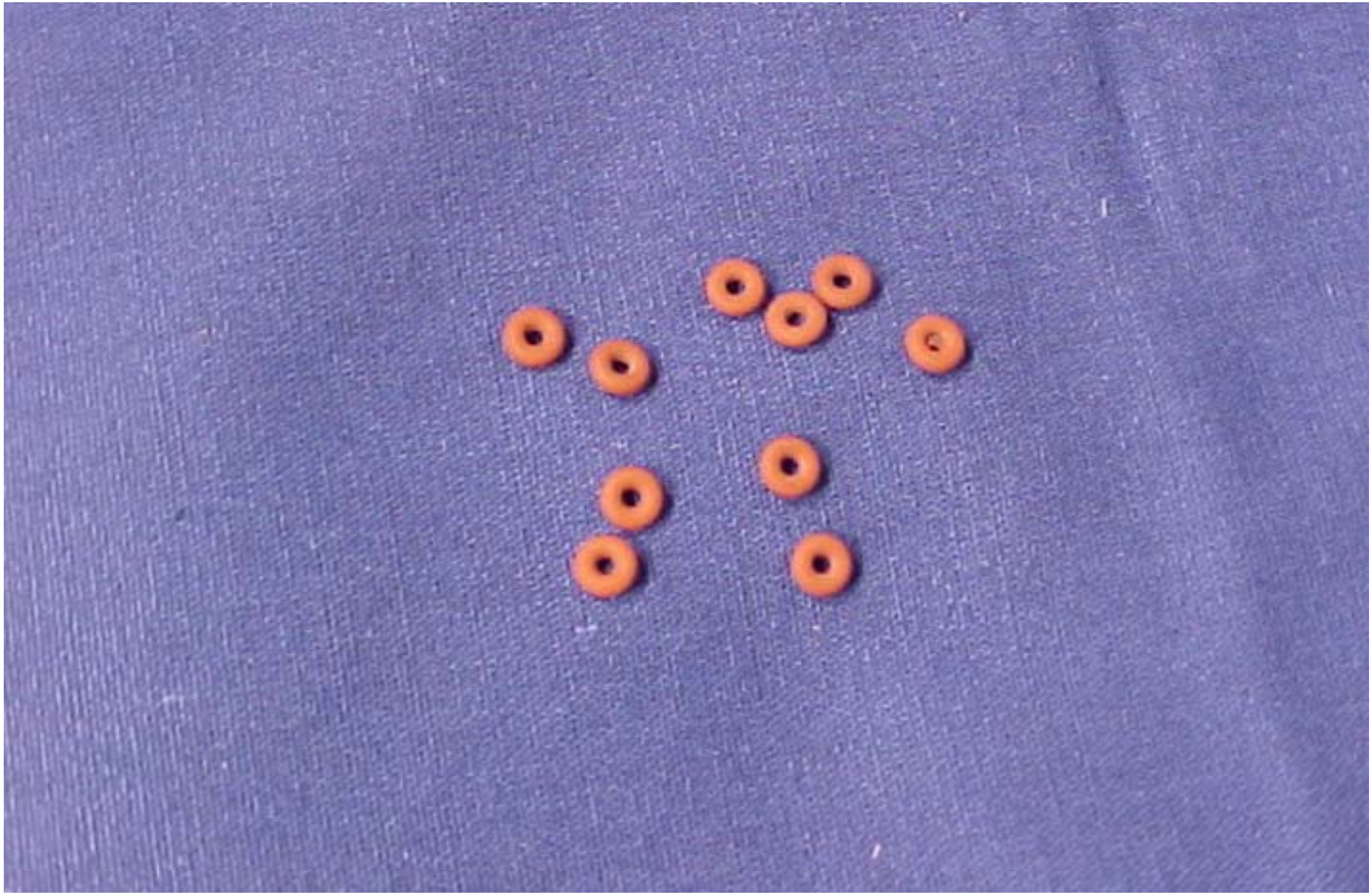
WTW510001001

SPARE PART INFORMATION
This Motor is the for the Flow Pump

O-RING
10.5X106

WTW511001001

SPARE PART INFORMATION
10.5mm ID X 1.06 mm thickness. Used on the product water fitting on the end of the membrane.



O-RING
1.42 x 1.52

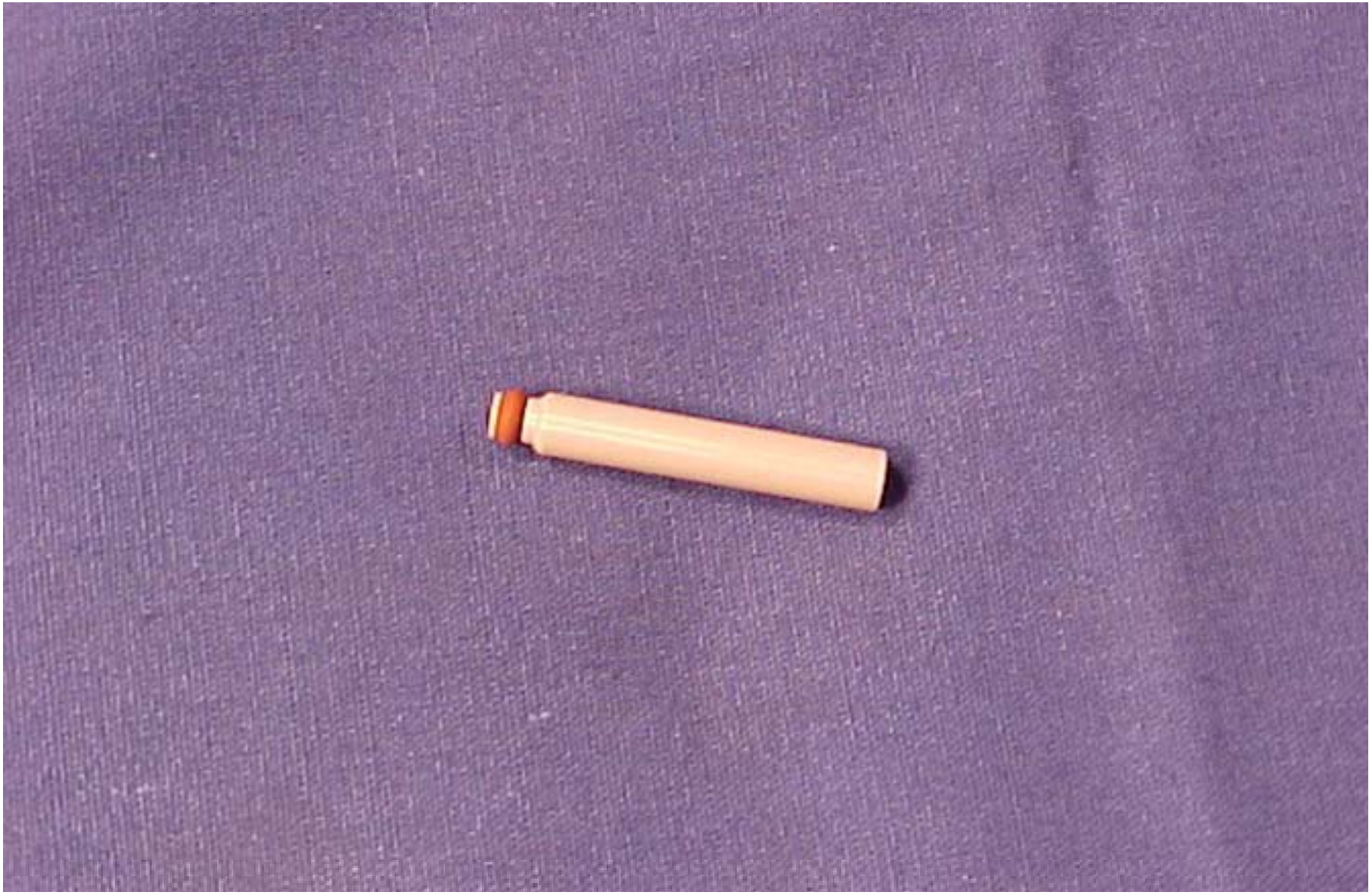
WTW511003001

SPARE PART INFORMATION
1.42 mm ID X 1.52 mm thickness. Used on machines SN 258 and lower, for SN 259 and higher use WTW511003002. Used on the Plugs in the side of the Flow Block

PLUG 19MM

WTW512001001

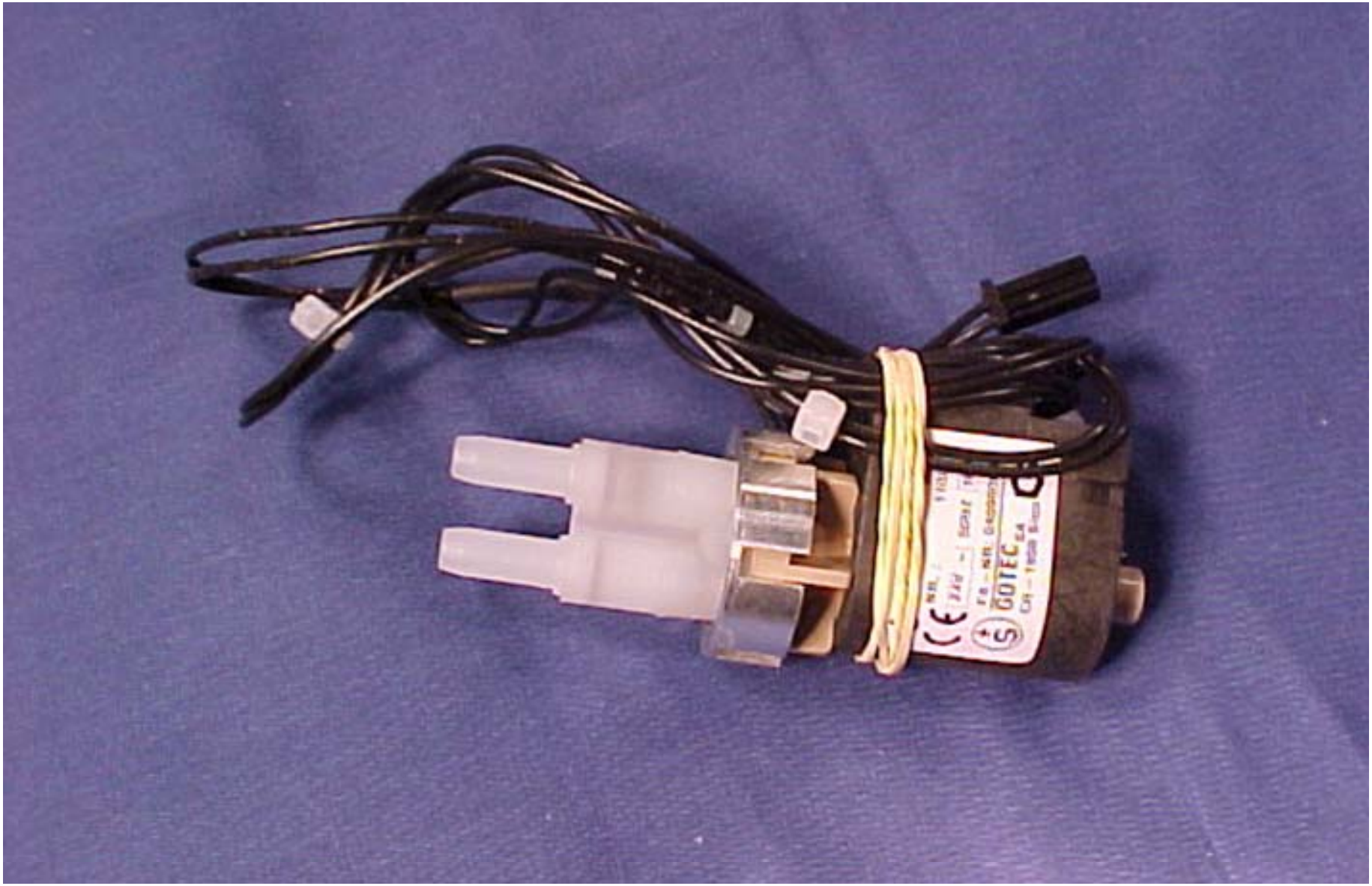
SPARE PART INFORMATION
Used on the Flow Block



PLUG 30MM

WTW512002001

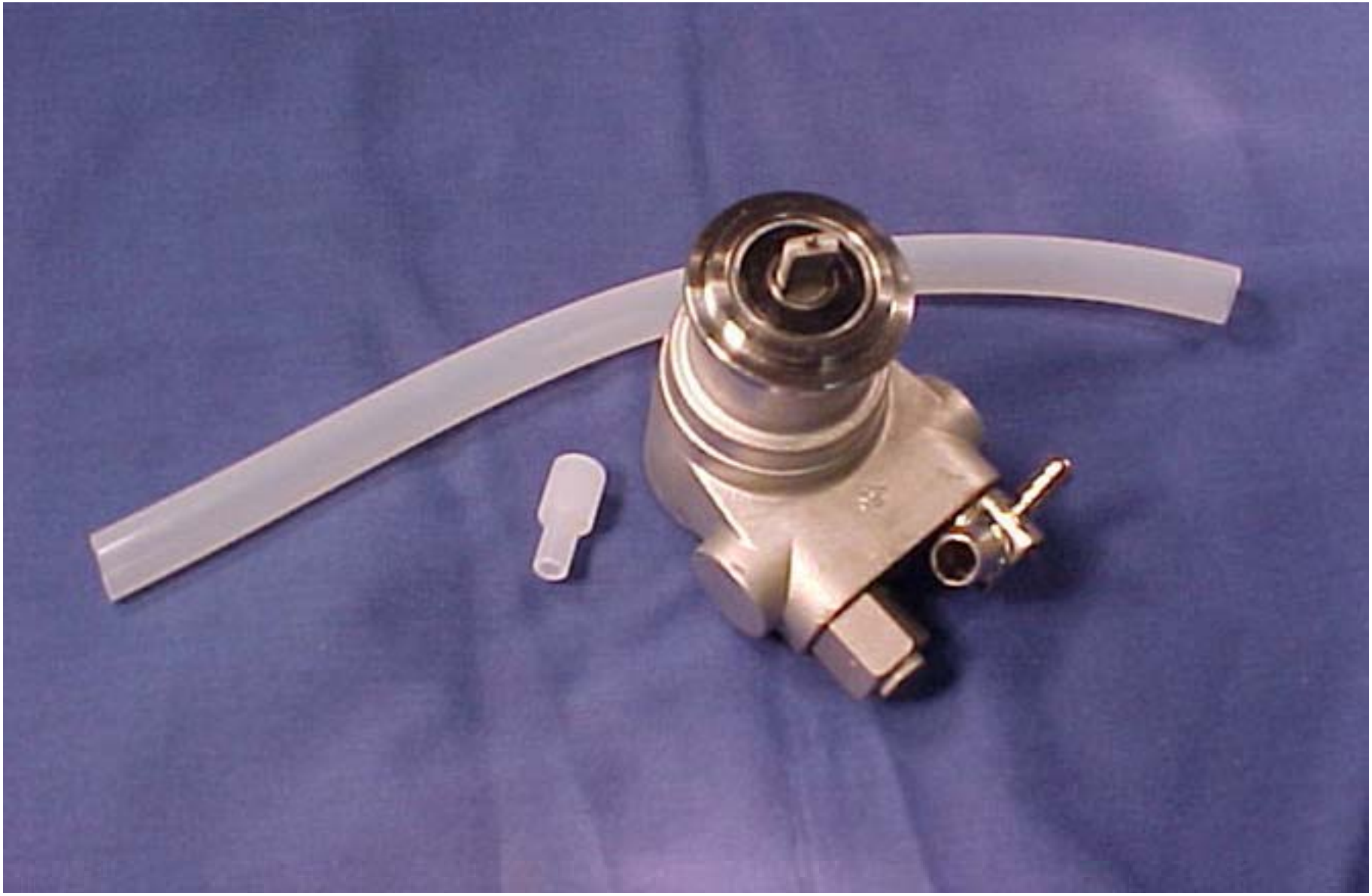
SPARE PART INFORMATION
Used on the Flow Block



CHEM PUMP
24 VDC

SPARE PART INFORMATION
Old number WTW513001001

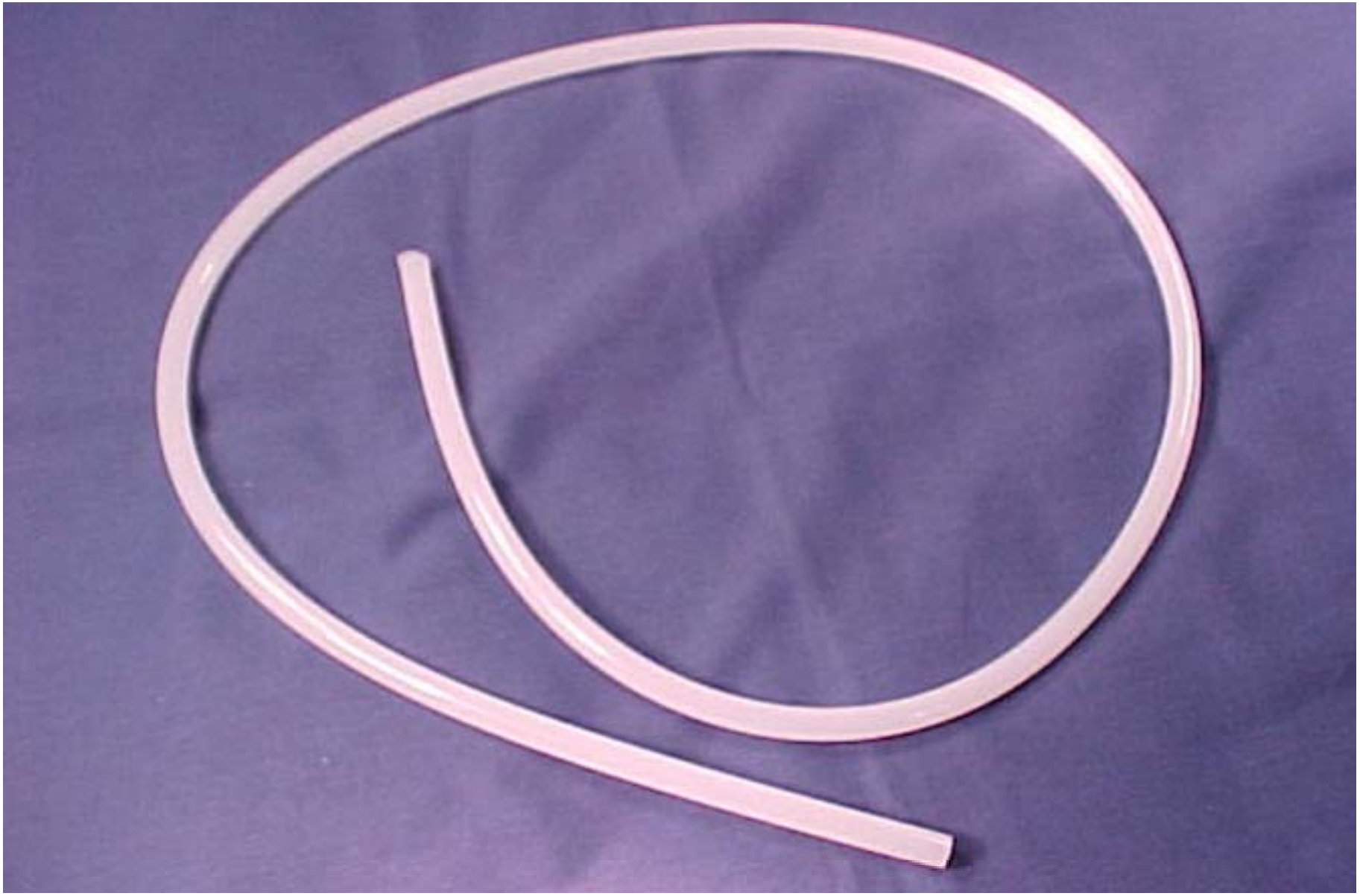
WTW513001002



PUMP

WTW513002002

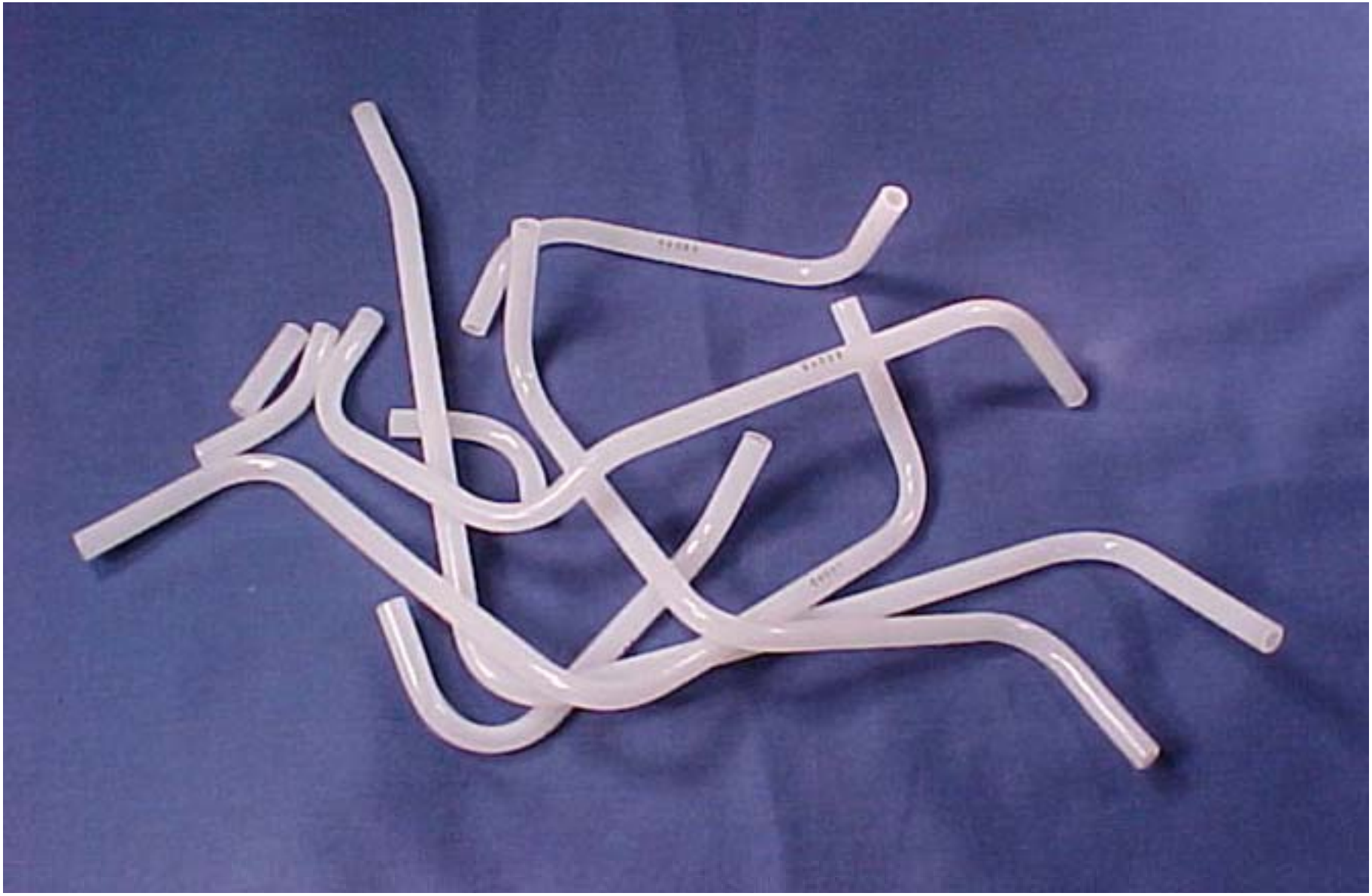
SPARE PART INFORMATION
Old part number **WTW513002001**



CLEANPEX
TUBE

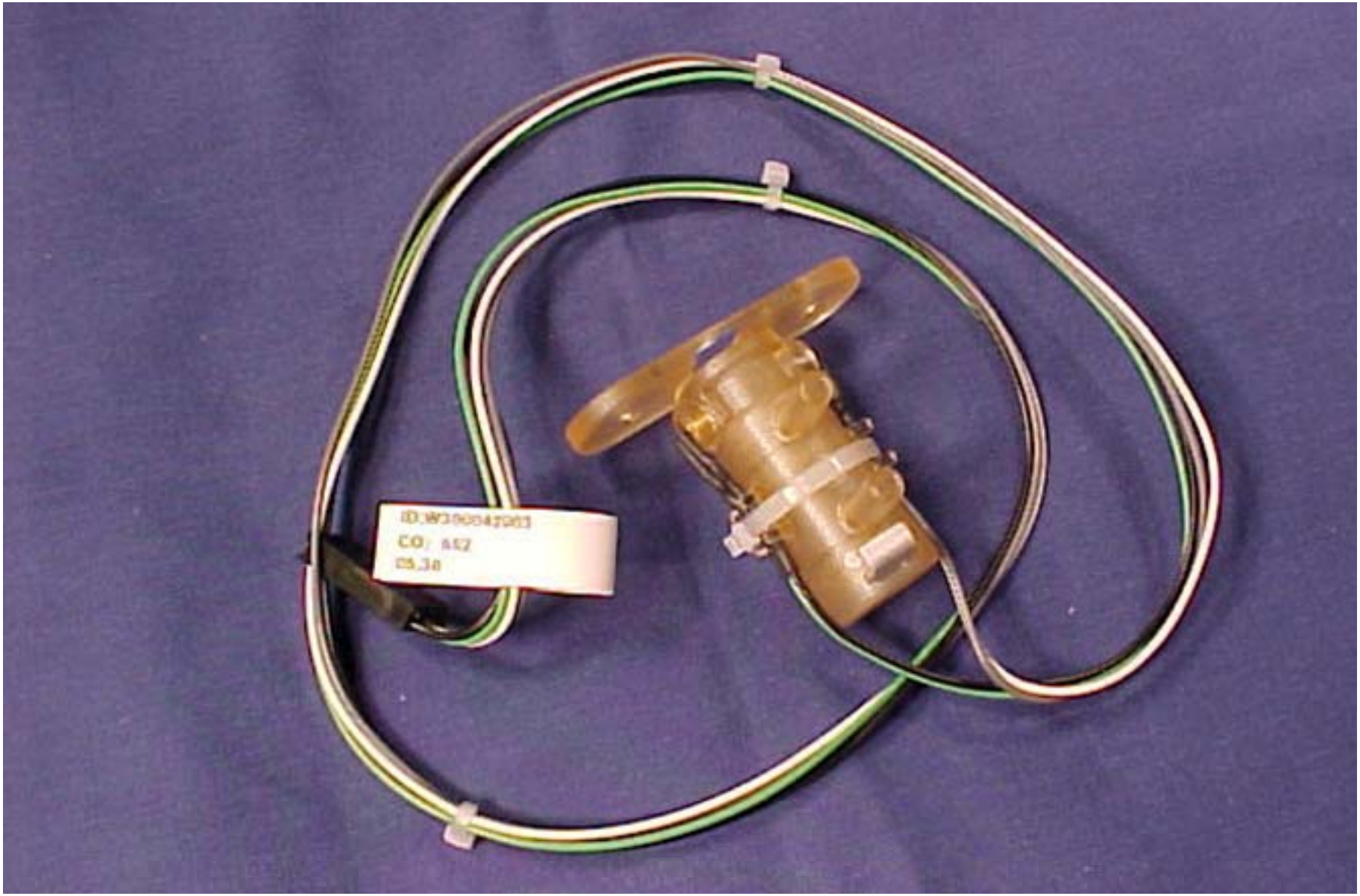
WTW514001001

SPARE PART INFORMATION
Part of the tubing from the Air Vent on the Water Tank



PEX PIPE KIT

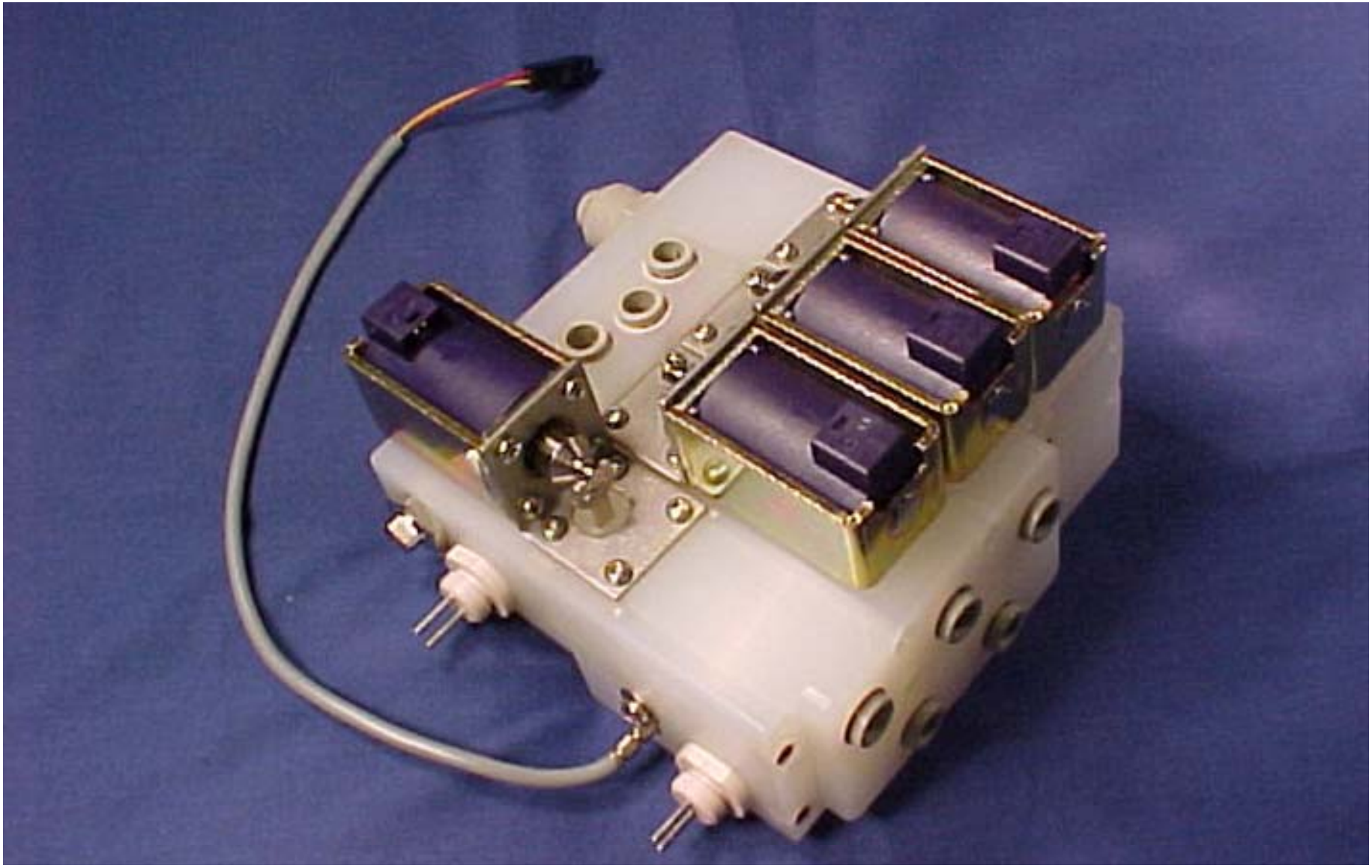
WTW514002001



CHEM INTAKE COMPLETE

SPARE PART INFORMATION
Old number WTW515002001

WTW515002002



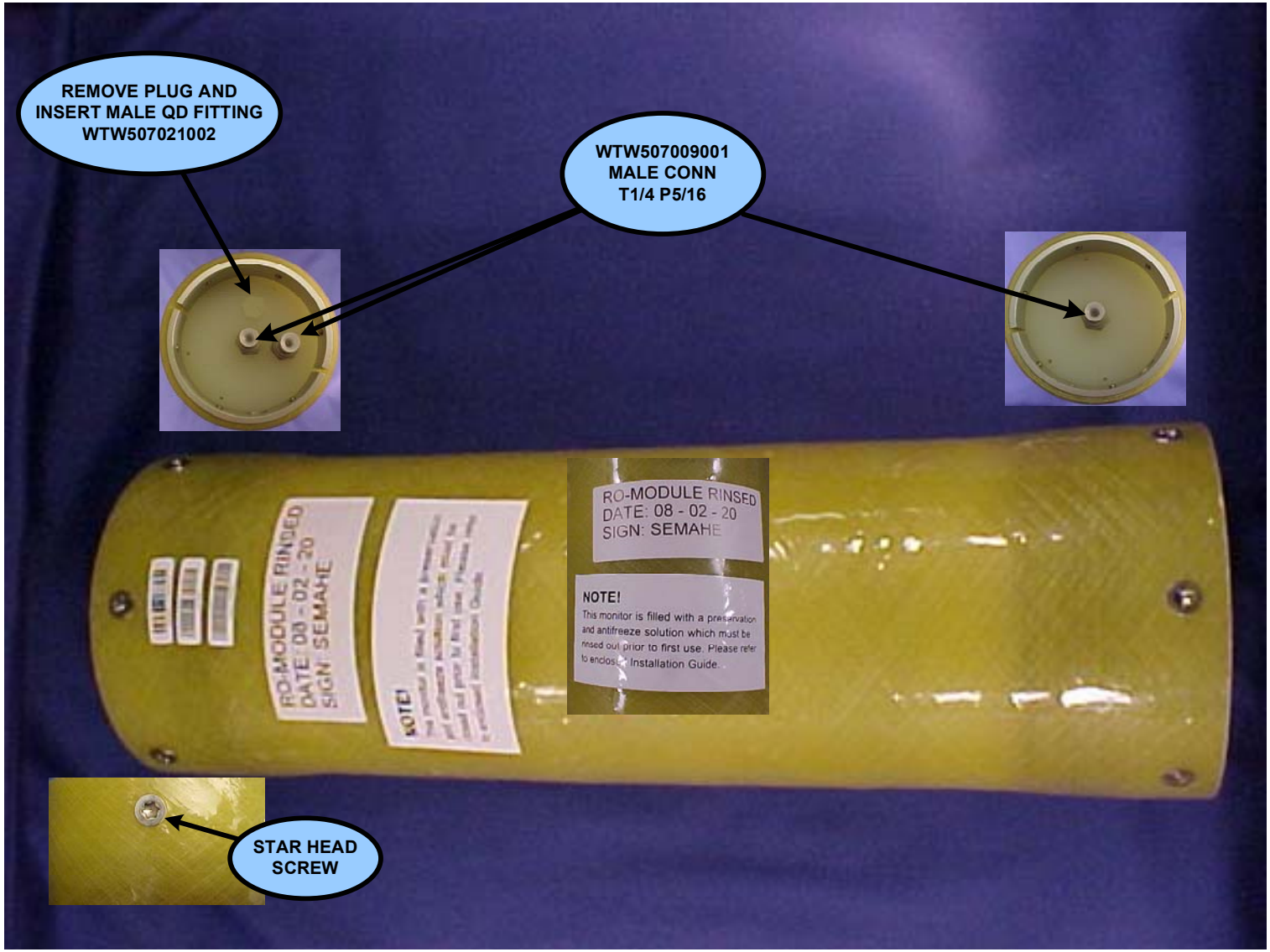
FLOW BLOCK COMPLETE

WTW515003001

SPARE PART INFORMATION
Some of the early machines had a block that was made from a brown metal material

TANK
COMPLETE

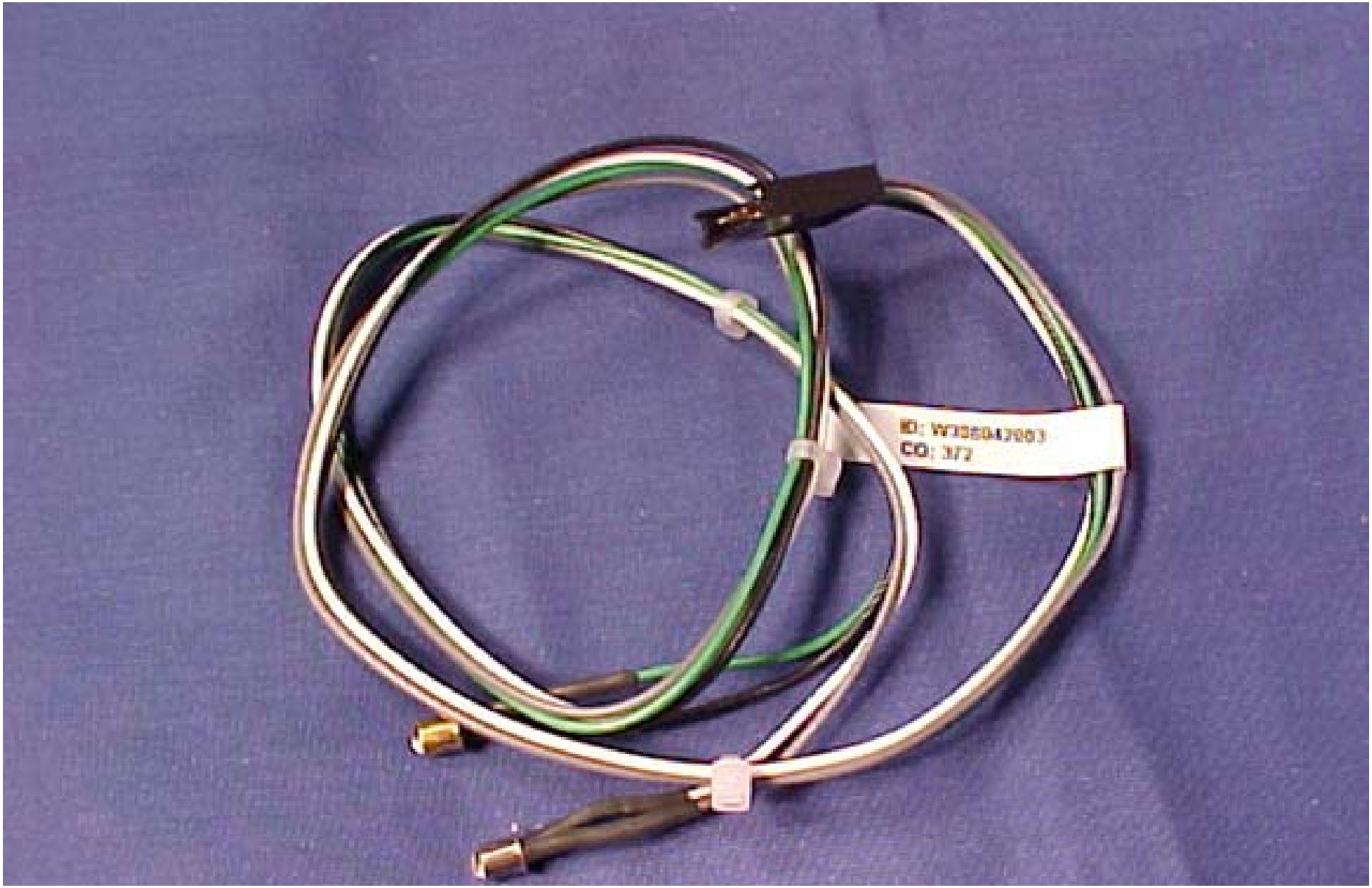
WTW515004002


REMOVE PLUG AND INSERT MALE QD FITTING WTW507021002
WTW507009001 MALE CONN T1/4 P5/16
RO-MODULE RINSED
DATE: 08 - 02 - 20
SIGN: SEMAHE
NOTE!
This monitor is filled with a preservation and antifreeze solution which must be rinsed out prior to first use. Please refer to enclosed Installation Guide.
STAR HEAD SCREW

RO MODULE COMPLETE

WTW515008002

SPARE PART INFORMATION
IF REPLACING AN RO MODULE WITH THE OLD STYLE BLACK FITTINGS , A PEX TUBE KIT MUST ALSO BE ORDERED.
WRO300 ORDER WTW506003001 **WRO95 ORDER WTW506003002**



CABLE OPTICAL SENSOR

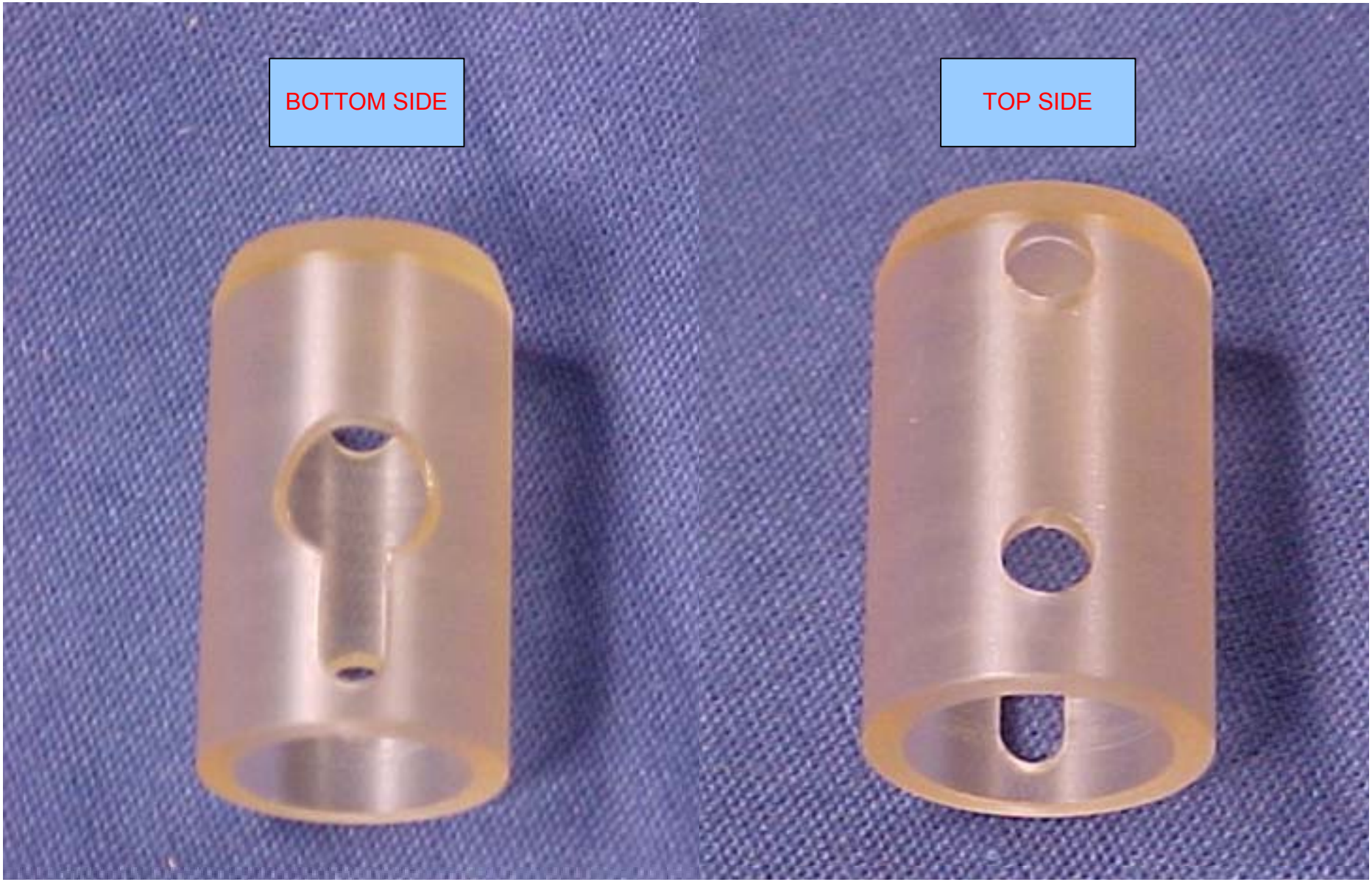
WTW516001001

SPARE PART INFORMATION
This cable is for sensing the presence of the Disinfect Tube (Wand)

LEVEL SENSOR

WTW516002001

SPARE PART INFORMATION
Used in the inlet water tank



LEVEL SENSOR DEFLECTOR

WTW516003001

SPARE PART INFORMATION
Used on the top and middle level sensors in the water tank

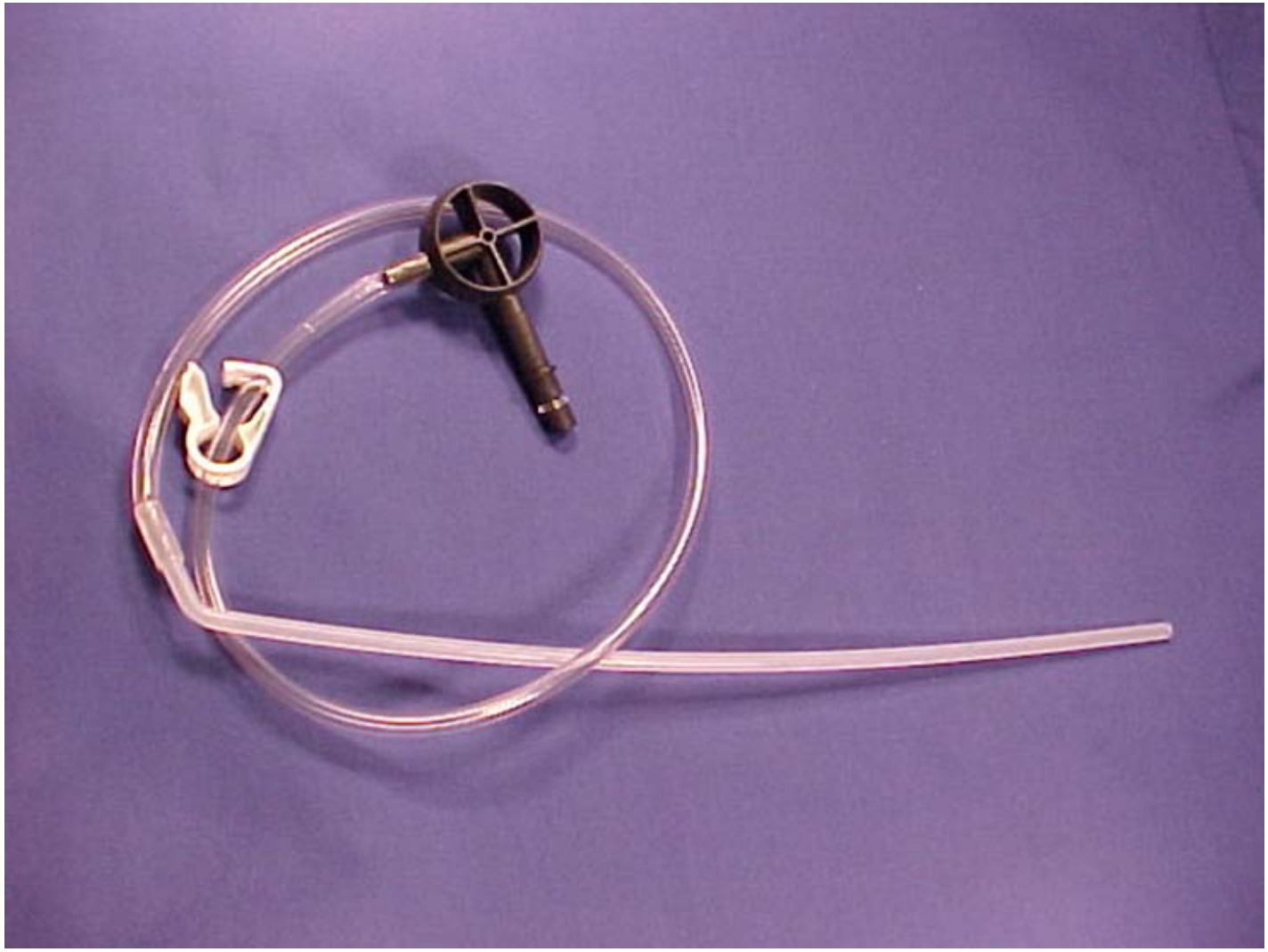
TEMPERATURE SENSOR

WTW516004001

CONNECTOR TOOL

SPARE PART INFORMATION
Old number WTK12755001.

WTW517001001



DISINFECT
TUBE

WTW518001001

TANK WRO300

WTW519001002

SPARE PART INFORMATION
This part is the tank only, it does not include the level sensors

NEEDLE VALVE COMPLETE

WTW521001001

SPARE PART INFORMATION
Replacement Needle Valve for systems that have the Sound Lowering Kit istalled

FLOW

(PRESSURE)

REGULATOR

WRO300

WTW522001001

SPARE PART INFORMATION
Includes Hose Clamps. If the inlet pressure exceeds 44 psi, this external Flow (pressure) regulator should to be installed

SCREW TORX
M4 x 10
(Sold as Each)

SPARE PART INFORMATION
Used for mounting various components

WTW900000050

O RING
7.11 X 2.87

WTW900000052

SPARE PART INFORMATION
Used on the Collets on the back of the Flow Block assy.

SCREW TORX
M5 x 20

WTW900000053

SPARE PART INFORMATION
Used for attaching the mounting block to RO Module

SILICON HOSE
D16XT3MM
5MTR/CS
WTW900000054

SPARE PART INFORMATION
16mm OD X 13mm ID wall thickness X 5 meters (21 ft) Long. Used on the RO Pump

WASHER
4.3x12x1mm
(Sold as Each)

WTW900000070

SPARE PART INFORMATION
4.3mm ID x 12mm OD x1mm thick. Used on the Chemical Intake assy.

SPRING
TF1X6X25

WTW900000072

SPARE PART INFORMATION
(SOLD AS EACH) **The Spring is on the inside of the Chemical Pump and Valves**

SCREW TORX
M6 x 8
(Sold as Each)

WTW900000079

SPARE PART INFORMATION
Used for attaching the Flow Pump unit to it's mounting bracket

SCREW
M8 x 16

SPARE PART INFORMATION
Used for mounting the Casing Back

WTW900000103

SCREW
M8 x 16

SPARE PART INFORMATION
Used for mounting the Casing Back

WTW900000103

QUARTER TURN SCREW

WTW900000109

SPARE PART INFORMATION
Used for mounting the Casing Top Cover (SOLD AS EACH)

COLLET

WTW900000119

SPARE PART INFORMATION
Used on the Flow Block for the hose connections

SCREW TORX
M4 x 20

SPARE PART INFORMATION
Used for mounting the Cooling Fan

WTW900000128

SILICON HOSE
15 X 13mm

WTW900000261

SPARE PART INFORMATION
15mm OD x 13mm ID x 5 meters in length (16.4 ft) Used on the Chemical Pump assy

FERRULE SET

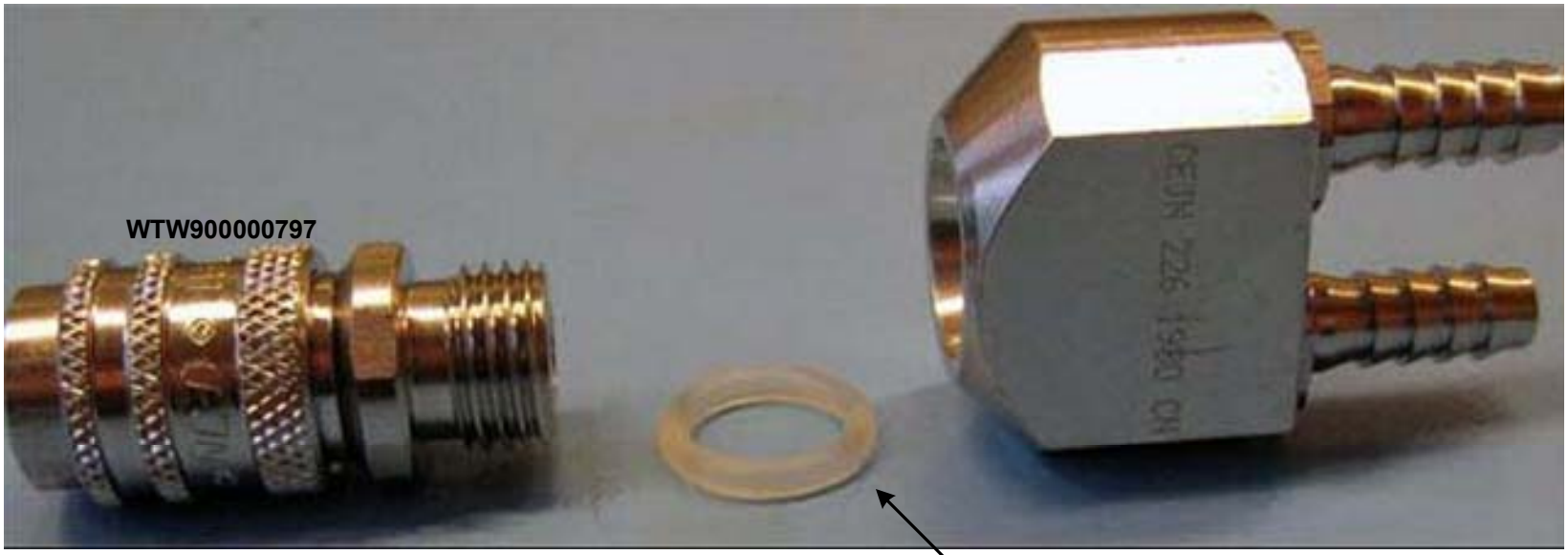
WTW900000725

SPARE PART INFORMATION
Ferrule set for Needle Valve WTW521001001

FEMALE CONNECTOR FOR "Y" CONNECTOR

WTW900000797

SPARE PART INFORMATION
Female Connector for WRO 300 "Y" connector WTW507022001



O-RING FOR
“Y” CONNECTOR

WTW900001062

SPARE PART INFORMATION
O-RING for WRO 300 “Y” connector WTW507022001

PLASTIC
JUG BOX

WTCHEMBOX

SPARE PART INFORMATION
Used between the Hitch Kit for WRO300 and Phoenix for holding chemical jugs

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Setting Up for Treatment

1. Ensure WRO 300 supply hose is connected to a water source, that the drain hose is secured at a sink or drain, and that the WRO 300 product water loop is connected to the hemodialysis machine
2. Press and hold the button until lit.
3. Turn on the Hemodialysis machine
4. Allow 3 minutes for the WRO 300 readings to stabilize. Check that:
    a. There are no alarm messages on the WRO 300
    b. If the WRO 300 has been disinfected since the previous treatment, test for residual disinfectant and ensure that there are no residual chemicals in the product water (can also be tested at the hemodialysis machine drain line).
    c. The WRO 300 pressure gauge (mounted on the filter housing) shows between 20 PSI and 45 PSI. Pressures at or below 20 PSI may indicate that the pre-filter is almost clogged and should be replaced prior to treatment.
    d. Test for total chlorine at the post-filter sample port. Verify that the total chlorine level is less than 0.1 mg/l (ppm). Chlorine levels at or above 0.1 mg/l (ppm) indicate that the carbon pre-filter should be replaced prior to treatment.

Do not initiate treatment unless all checks have been successfully completed

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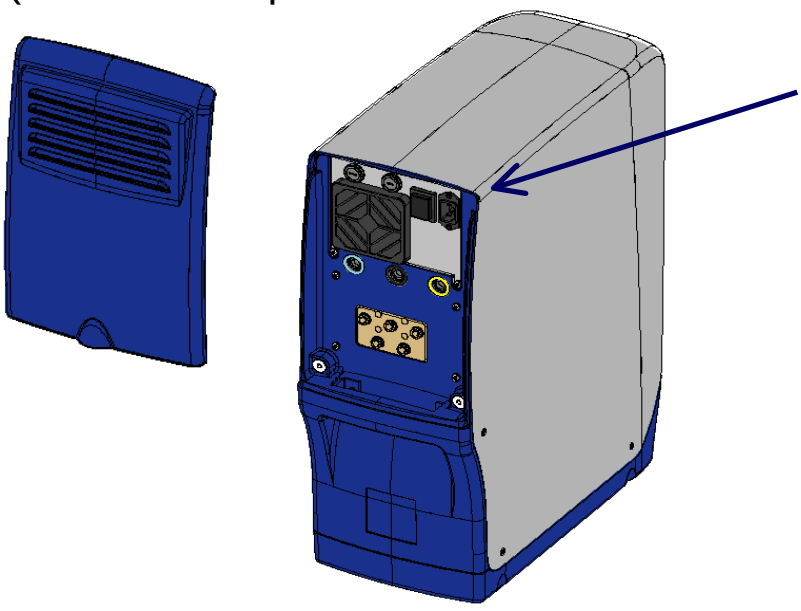
After the Treatment is Complete

1. Complete the appropriate post-treatment operations on the Hemodialysis machine (disinfection, cleaning, rinsing, etc.).
2. Turn off the Hemodialysis machine
3. If the WRO 300 is not due for disinfection, turn the WRO 300 off by pressing the button (light off).
4. If the WRO 300 is due for disinfection, perform the disinfection process according to the attached procedure

Between Treatments

When the WRO 300 is not in use between treatments, it has a Standby Flush (also known as Auto Flush) feature which will automatically flush water to drain for 3 minutes every hour. This feature helps to control bacteria growth in the WRO 300 by flushing any stagnant water out of the system. It requires that the WRO 300 be continually connected to a water supply, drain, and electrical outlet.

If continued connection to water, drain, and electricity is not practical, the WRO 300 can be turned off at the main switch on the back of the machine (remove blue plastic cover to access switch).



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WRO 300 Pretreatment Monitoring and Service

Monitoring and Operation of the Pretreatment: Certain tests will provide information regarding the pretreatment, which requires minimal maintenance. These tests include monitoring the **Total Chlorine** and **Pressure** in the pretreatment.

Overview: The pretreatment is primarily intended to remove **Chlorine, Chloramines**, and **Particulates**. The standard pretreatment kit uses a combination Carbon and Sediment filter (carbon block cartridge) to remove total chlorine and sediment. The carbon block filter has a high capacity for chlorine removal and a 0.5-micron sediment rating.

Alternate Pretreatment Arrangements: Combinations of additional carbon and sediment filters may be needed based on local water conditions. Contact Gambro Technical Assistance Services for more information.

Line Pressure: The reading indicated on the pressure gauge when the water is turned on and the WRO 300 is turned off is the **Static Line Pressure**.

Operating Pressure: The lowest reading indicated on the pressure gauge during operation when the WRO 300 draws water is the **Operating Pressure**.

Filter Delta Pressure: The difference between the Static Line Pressure and the Operating Pressure corresponds closely to **Filter Delta Pressure**.

Carbon Block Filter Replacement Due to Pressure: Filter Delta Pressure greater than 30 PSI is an indication the filter needs replacement. Also, Operating Pressure less than 20 PSI may cause **insufficient water** to the WRO 300 and shut off the WRO 300 (fast blinking Run or DIS light). Generally, carbon block filters should be replaced every one to two months for pressure considerations.

Carbon Block Filter Chlorine Removal Ability: How long a carbon block filter will remove chlorine depends on many factors, such as the hours of operation, total chlorine levels, and organic fouling agents in the feed water. If the filter clogs before the chlorine removal capacity is exhausted, installation of a 1-micron particulate filter upstream from the carbon block filter is recommended to prolong the filter's life.

Carbon Block Filter Replacement Due to Total Chlorine Breakthrough: AAMI Standards require a check of the total chlorine level prior to every patient shift. The sample port in the standard pretreatment option is designed for this purpose. The total chlorine level must be less than 0.1 mg/l (ppm). Replace the carbon block filter whenever chlorine breakthrough is detected in the feed water.

Flushing Carbon Filters: All types of carbon filtration being used must be flushed to drain before putting online to prevent carbon fines from entering other filters and the WRO 300.

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WRO 300 Total Chlorine Monitoring

1. Start the WRO 300 by pressing the button until lit and allow the WRO 300 to operate for three minutes.

2. Place a container under the sample port and partially open it for a few seconds to flush.

3. Close the sample port valve and discard the fluid.

4. Test a water sample from the sample port for total chlorine with an appropriate strip or test kit according to the manufacturer's instructions.

5. Verify that the total chlorine level is less than 0.1 mg/l (ppm).

6. If the total chlorine is above 0.1 mg/l (ppm), replace the carbon filter or tank according to the following procedure.

Carbon Block Filter Replacement Procedure

If Replacing Carbon Tanks: This procedure is for the replacement and flushing of the 10" Carbon Block Filter. If replacing carbon tanks, remove any post-carbon sediment filters before flushing, and then reinstall them when flushing is complete.

1. Turn off the water to the WRO 300. Put the WRO 300 in Standby mode by pressing the button.

2. Relieve pressure in the system by holding a container under the sample port and slowly opening it until the pressure gauge reads zero. Close when complete.

3. Disconnect the reject line from the quick disconnect fitting at the back of the machine.

4. Disconnect the WRO 300 water inlet line at the outlet of the prefilter.

5. Attach the reject line to the quick disconnect fitting at the outlet of the prefilter and place the open end in a drain receptacle.

6. Remove the carbon block filter or tank being replaced from the pretreatment system, using the provided filter wrench to aid in removal of the filter housing.

7. Reinstall the replacement carbon block filter or tank into the pretreatment system.

8. Partially open the water supply valve to purge air from the filter housing or tank.

9. When the air is purged, fully open the valve to flush the filter or tank.

> ***Note:*** *Flush carbon block filters for 1 minute. Flush carbon tanks for 5 minutes. Flush both filters and tanks until the drain stream is clear of any gray or black discoloration when collected in a clear container.*

10. When complete, turn off the water and restore the water lines to their original positions.

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WRO 300 Chemical Disinfection Procedure

(Software Version >=2.0)

Recommended Chemical Disinfection Frequency

- A chemical disinfection schedule should be developed and validated by microbiological testing to keep the product water within AAMI limits for bacteria and endotoxin.
- As a guideline, Gambro recommends a minimum frequency of weekly chemical disinfection to ensure consistent microbiological quality of the product water.
- Weekly chemical disinfection, in combination with Standby Flushing, will help maintain the microbiological quality of the product water.

Manufacturer's Approved Disinfectants

- The recommended disinfectant for the WRO 300 is Minncare® Cold Sterilant.
- Other peracetic acid based disinfectants may be used, provided that the WRO 300 is properly configured by a qualified service technicians according to procedures described in the Service Manual.
- Always follow the manufacturer's instructions for use for the specific disinfectant.

***Note**: For certain peracetic acid disinfectants the manufacturer recommends cleaning with an acid cleaning agent prior to chemical disinfection to help preserve the RO membrane. This is recommended in cases where feed water sources with high levels of iron or transition metals may leave mineral deposits on the membrane.*

Required Amount of Disinfectant

- 50 ml per chemical disinfection when using Minncare® Cold Sterilant.

Collection Assist Device Disinfection

- A disinfected collection assist device is required to collect samples for testing.
- Disinfect the collection assist device provided with the WRO 300 by soaking it for 30 minutes in a 1% solution of Minncare® Cold Sterilant before using (1 part Minncare, 99 parts potable water).

1. With the WRO 300 in Standby mode, disconnect the WRO 300 from the dialysis machine at the quick connector on the product water loop.

***Caution:** If the WRO 300 is not disconnected from the dialysis machine during the chemical disinfection procedure, the test for residuals after the disinfection procedure must be performed on the dialysis machine according to the operator's manual of the specific dialysis machine being used.*

2. Place a disinfect warning tag on the WRO 300 to indicate:
   a) Disinfection is being performed
   b) The type of chemical that is being used
   c) Mandatory rinsing is required before the next operation

3. Insert the wand connector into the chemical intake port of the WRO 300.

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WRO 300 Chemical Disinfection Procedure - Continued

(Software Version >=2.0)

4. Insert the open end of the disinfection wand into the container of disinfectant solution. Check to ensure that the clamp on the disinfection wand tubing is open.

5. Scroll through the **CHEM SELECT** menu until the correct disinfection program is displayed on the screen.

6. Press and hold the **Dis** button until lit to start the intake of disinfectant.

7. After the intake of disinfectant is complete press **MUTE** to silence the alarm.

***Note: 401 REMOVE WAND** will be displayed on the screen.*

8. Verify that the correct amount of disinfectant has been consumed.

9. Remove the wand connector and allow the disinfectant to flow back into the container, then clamp the line.

10. Remove the wand from the container and flush the wand with water.

***Note:** The disinfection procedure will now continue with a 30 minute **DWELL PERIOD** followed by **RINSE.** After rinsing, the display will show the message **PERFORM RESIDUAL TEST**.*

11. Press and hold the button until lit to put the WRO 300 into operation after the **RINSE** is complete.

12. Remove the collection assist device from the disinfectant solution and close the valve to prevent accidental leakage.

13. Direct the outlet of the collection assist device into a drain or container and insert it into the product water loop connection.

14. Slowly open the valve and allow the stream to run freely for sixty seconds.

15. After 60 seconds, test the product water with the appropriate residual disinfectant test.

16. Continue to test the product water stream until the test is negative for residual disinfectant.

17. Confirm the negative test result by pressing and holding the **Dis** button. The **Dis** light will go out and the light will remain lit.

18. Remove the disinfect warning tag.

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WRO 300 Acid and Alkaline Cleaning Procedure

(Software Version >=2.0)

Acid Cleaning Frequency

- When the rejection rate has decreased by more than 5% from the initial value
- When sufficient product water output flow is not obtained
- As a preventive measure against mineral fouling if used regularly with hard water
- To remove iron and transitional metals from the RO membrane prior to chemical disinfection if present in the feed water

Alkaline Cleaning Frequency

- When the product water flow rate and conductivity have declined and acid cleaning does not improve performance
- When organic fouling is suspected

Manufacturer's Approved Cleaners

- Citric acid and Minnclean® AC are approved acid cleaners for the WRO 300.
- Minnclean® TF is the approved alkaline cleaner for the WRO 300.

Preparation of Cleaning Solutions

- **Citric Acid**
  Prepare by mixing **6 tablespoons** of citric acid, or approximately **100 grams**, in **200 ml** of product water.
- **Minnclean® AC and Minnclean® TF**
  Prepare the cleaning solution by mixing **4 tablespoons** of the chemical, or approximately **40 grams**, in **250 ml** of product water.

Collection Assist Device Disinfection

- A disinfected collection assist device is required to collect samples for testing.
- Disinfect the collection assist device provided with the WRO 300 by soaking it for 30 minutes in a 1% solution of Minncare® Cold Sterilant before using (1 part Minncare, 99 parts potable water).

1. Monitor the product water conductivity in normal operation and once the conductivity stabilizes, record the product water conductivity value. Measure and record the pH of the feed water with an appropriate test method (pH test strip or test kit).

> ***Note:*** *These values will be used as a reference to confirm the absence of cleaning chemical after rinsing.*

2. With the WRO 300 in Standby mode, disconnect the WRO 300 from the dialysis machine at the quick connector on the product water loop.

3. Place a disinfect warning tag on the WRO 300 to indicate cleaning is being performed and that mandatory rinsing is required before the next operation.

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WRO 300 Acid and Alkaline Cleaning Procedure - Continued

(Software Version >=2.0)

4. Insert the wand connector into the chemical intake port of the WRO 300.

5. Insert the open end of the disinfection wand into the container of cleaning solution. Check to ensure that the clamp on the disinfection wand tubing is open

6. Scroll through the **CHEM SELECT** menu until the **ACIDCLEAN** or **ALKALICLEAN** cleaning program is displayed on the screen.

7. Press and hold the **Dis** button to start the intake of the cleaner.

8. After the intake of cleaner is complete press **MUTE** to silence the alarm.

> ***Note: 401 REMOVE WAND*** *will be displayed on the screen.*

9. Disconnect the wand from the WRO 300 and flush it with water.

> ***Note:*** *The cleaning procedure will now continue with a 30 minute* ***DWELL PERIOD*** *followed by* ***RINSE****. After rinsing, the display will show the message* ***PERFORM RESIDUAL TEST****.*

10. Press and hold the button to put the WRO 300 into operation after the **RINSE** is complete.

11. Remove the collection assist device from the disinfectant solution and close the valve to prevent accidental leakage.

12. Insert the device into the product water loop connection to check the pH of the product water.

13. Direct the outlet into a drain or other suitable container.

14. Slowly open the valve and allow the stream to run freely for sixty seconds. After sixty seconds test the product water pH with an appropriate test method (pH test strip or test kit).

> ***Note:*** *The absence of cleaner is confirmed when the conductivity of the product water corresponds to the previously recorded value and the pH is within 1.0 pH units of the feed water pH as measured in Step 1.*

15. Confirm the absence of cleaning chemical by pressing and holding the **Dis** button. The **Dis** light will go out and the light will remain lit.

16. Remove the warning tag indicating the cleaning procedure.

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WRO 300 Preservation Procedure

(Software Version >=2.0)

Recommended Frequency: Preserve the unit if it will not be used for **longer than one week** when using the Standby Flush (also known as Auto Flush) feature. If not using the Standby/Auto Flush feature, preserve the unit if it will not be used for **4 days or more**.

Manufacturer's Approved Preservative: Memstor. Available from King Lee Technologies, San Diego, CA 1-800-800-9019

1. Monitor the product water conductivity during normal operation until the conductivity stabilizes, record the product water conductivity as a reference value.

2. With the WRO 300 in Standby mode, disconnect the WRO 300 from the dialysis machine at the quick connector on the product water loop.

3. Prepare the preservative in a clean container with **100 ml of Memstor** dissolved in **2 liters** of tap water. Stir to dissolve solution fully (warm water aids mixing. Do not exceed 100 degrees F).

4. Place a warning tag on the WRO 300 to indicate preservation is being performed and that mandatory rinsing is required before the next operation.

5. Insert the wand connector into the chemical intake port of the WRO 300.

6. Insert the open end of the disinfection wand into the container of preservative solution. Check to ensure that the clamp on the disinfection wand tubing is open.

7. Scroll through the **CHEM SELECT** menu until the **PRESERVATION** program is displayed on the screen.

8. Press and hold the **Dis** button until lit to start the intake of the preservative. Intake of the preservative chemical will take approximately 20 minutes.

9. After the intake of preservative is complete press **MUTE** to silence the alarm.

***Note: 404 RINSE REQUIRED** will be displayed on the screen.*

10. Turn off the main power switch located behind the detachable cover.

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WRO 300 Preservation Procedure – Continued

(Software Version >=2.0)

11. If the WRO 300 will be moved for storage, disconnect the WRO 300 from the water supply and secure all feed water, drain, and product water tubing to the cart.

> ***Note:*** *If the WRO 300 is not going to be used for an extended period of time, it is good practice to drain the water from the pretreatment filter housings and tubing before storing the system.*

12. The preservation procedure is complete.

13. Proceed to the procedure to Rinse After Preservation to put the WRO 300 back into service.

Rinse After Preservation

1. Connect the WRO 300 to the water supply and electrical connections.

2. Turn on the WRO 300 with the mains power switch at the back of the machine.

> ***Note: 404 RINSE REQUIRED*** *will be displayed on the screen.*

3. Press and hold the **Dis** button to initiate **RINSE**.

> ***Note:*** *When the rinse program is complete the display will show* ***PERFORM RESIDUAL TEST****. The indication* ***Dis*** *will be lit steady and the* ***On/Off*** *button will flash.*

4. Press and hold the button to put the WRO 300 into operation.

5. Allow the WRO 300 to run for several minutes, then verify that the conductivity corresponds to the reference value recorded during operation before preservation.

> ***Note:*** *Continue to run until the conductivity value corresponds to the reference value before confirming the rinse out of the preservative chemical.*

6. Confirm when complete by pressing and holding the **Dis** button.

> ***Note:*** *The* ***Dis*** *light will go out and the* *light will remain lit.*

7. Remove the warning tag indicating the preservation procedure.

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WRO 300 Product Water Monitoring and Service

AAMI Analysis for Contaminants and Bacteriology: AAMI analysis for product water contaminants and bacteriology must be performed on samples obtained from the product water line. To obtain these samples, the WRO 300 must be operating in the normal "Run" mode.

Collection Assist Device (CAD) Disinfection: The WRO 300 is provided with a collection assist device that is required to obtain product water samples. The CAD consists of a sample valve and connector that plugs into the product water loop connection.

> ***Note:*** *The collection assist device will also be used to collect test samples after performing disinfection and cleaning procedures.*
>
> ***Caution:*** *The device should always be disinfected before using to obtain any samples to avoid contaminating the product water loop.*

Soak the CAD for at least 30 minutes in a 1% solution of Minncare® Cold Sterilant before using. Other peracetic acid disinfectants may be used provided they are used according to the manufacturer's recommendations for disinfection.

1. Allow the WRO 300 to run for at least five minutes and until the product water conductivity stabilizes at the normal operating value before obtaining samples for AAMI Analysis.

> ***Note:*** *Collect other samples according to the specific procedure being followed.*

2. Remove the CAD from the disinfectant solution and close the valve to prevent accidental leakage.

3. Direct the outlet of the CAD into a drain or other suitable container and insert it into the product water loop connection.

4. Slowly open the valve and allow the stream to run freely into a drain receptacle.

> ***Caution:*** *Do not allow the end of the CAD to touch any surface to avoid contamination.*

5. After about sixty seconds, throttle the valve to a reduced flow rate and test the product water with the appropriate residual disinfectant test strip or other approved method.

6. When the test for residual disinfectant from the CAD is negative, proceed to obtain samples for the desired testing in the appropriate containers using aseptic technique.

> ***Caution:*** *The presence of residual disinfectant will interfere with the accuracy of water culture results and may give falsely negative results.*

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WRO 300 Ordering Information

WRO 300

107364	WRO 300, 115 Volt
WT6183000	Cart, Vertical, RO, SS
WT6182000	Box Assy, RO Cart
WT6182800	Lock Key, RO Cart Box
WT6182500	Lock, RO Cart Box

WRO 300 Pretreatment Kits

WT6187002	Prefilter Kit, WRO 300
WT6177702	10" Single Cartridge Particle Filter Kit Slim Line
WT6189001	Secondary Carbon Filter kit (for 2 filters in series)
WTWROGAUGEKIT	Pretreatment Gauge Kit
WT6179600	Pressure Regulator Kit (0-100 PSI)

Filters

WT01425125975	10" Carbon/ 0.5-Micron Cartridge Filter Replacement
WT6178000	6" x 18" Carbon Tank – Prefilled with GAC
WTGX0597/8	10" 5-Micron Filter Replacement

WRO 300 Miscellaneous

WT518001001	Disinfectant Wand
WT300CAD	Collection Assist Device (CAD)
WTS7594P	Housing Wrench, 5.5"
K12755001	Tool, Withdrawing Tube
WTHCEN9939	WRO 300 Operator's Manual
WTHCEN12073	WRO 300 Service Manual
WTWRO300DVD	WRO 300 In-Service Training DVD
WTWRO300HELPCARDS	WRO 300 Help Cards

SteriChek Test Strips

WT811902	Total Chlorine Test Kit (DPD Colorwheel)
WT811903	DPD Colorwheel Refill Kit
WT811905	Residual Peroxide Test Strips
WT811909	Low Level Chlorine/Chloramine Test Strips
WT811911	Low Level Hardness Test Strips

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